

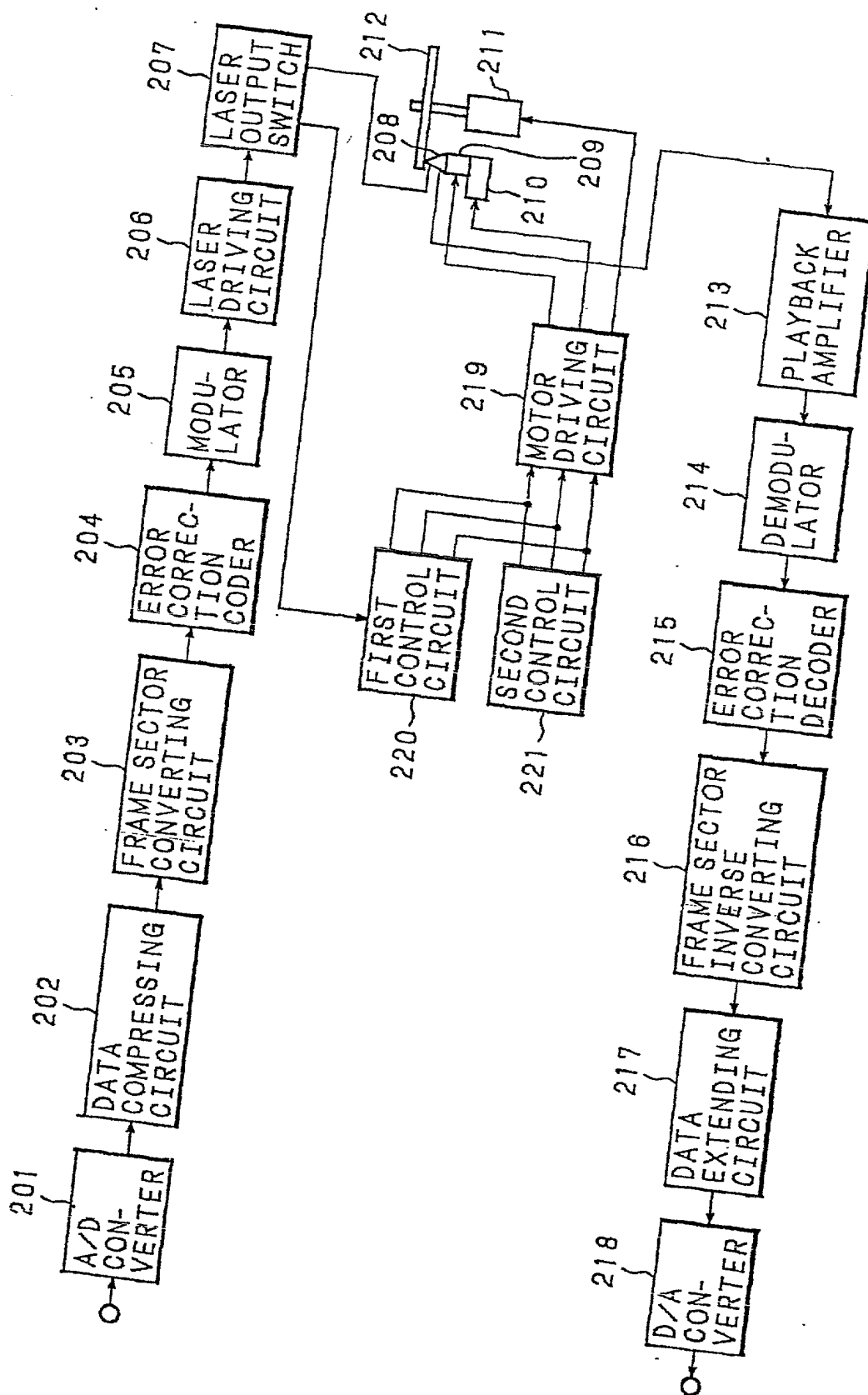
FIG. 1
PRIOR ART

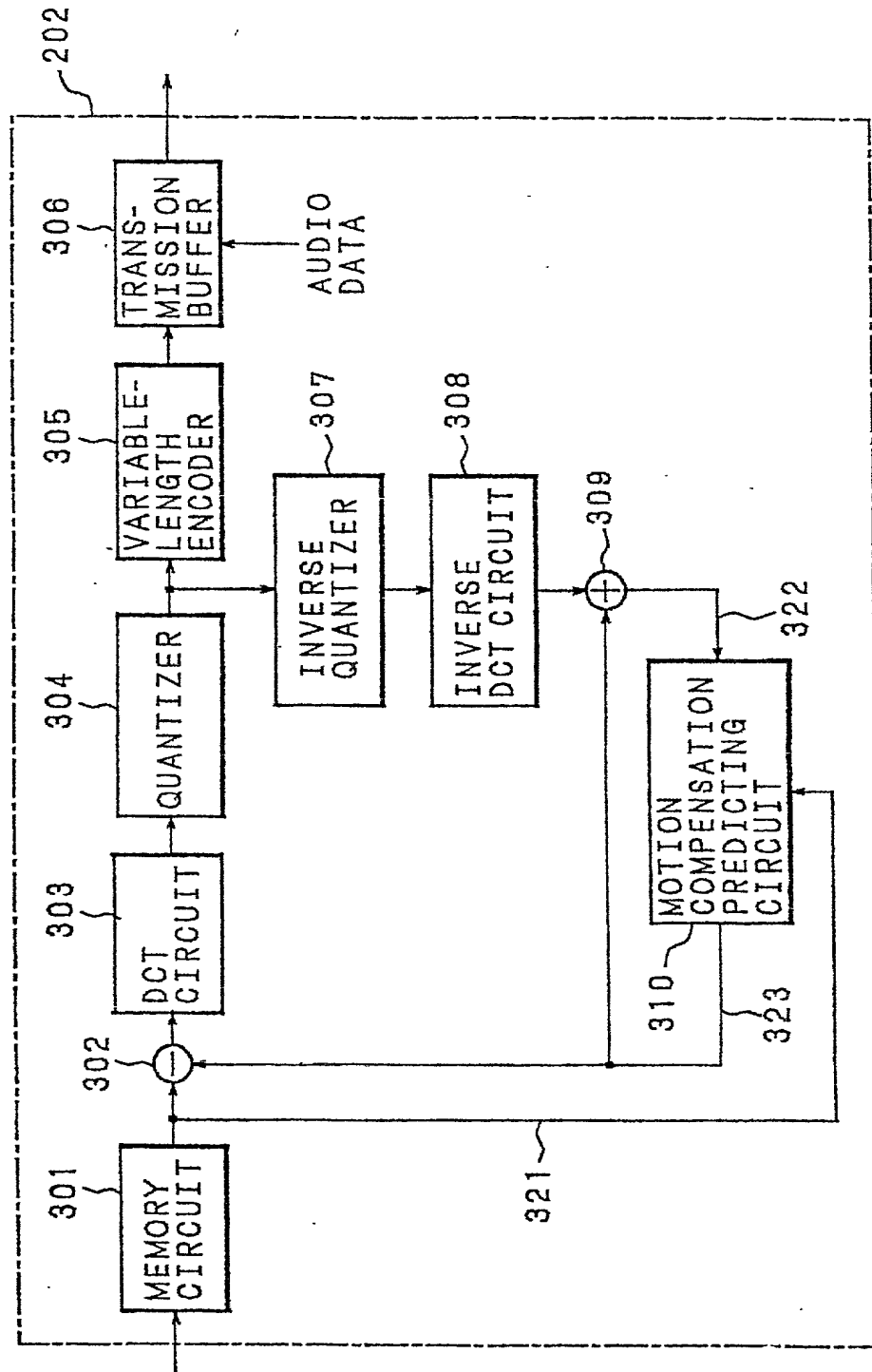
FIG. 2
PRIOR ART

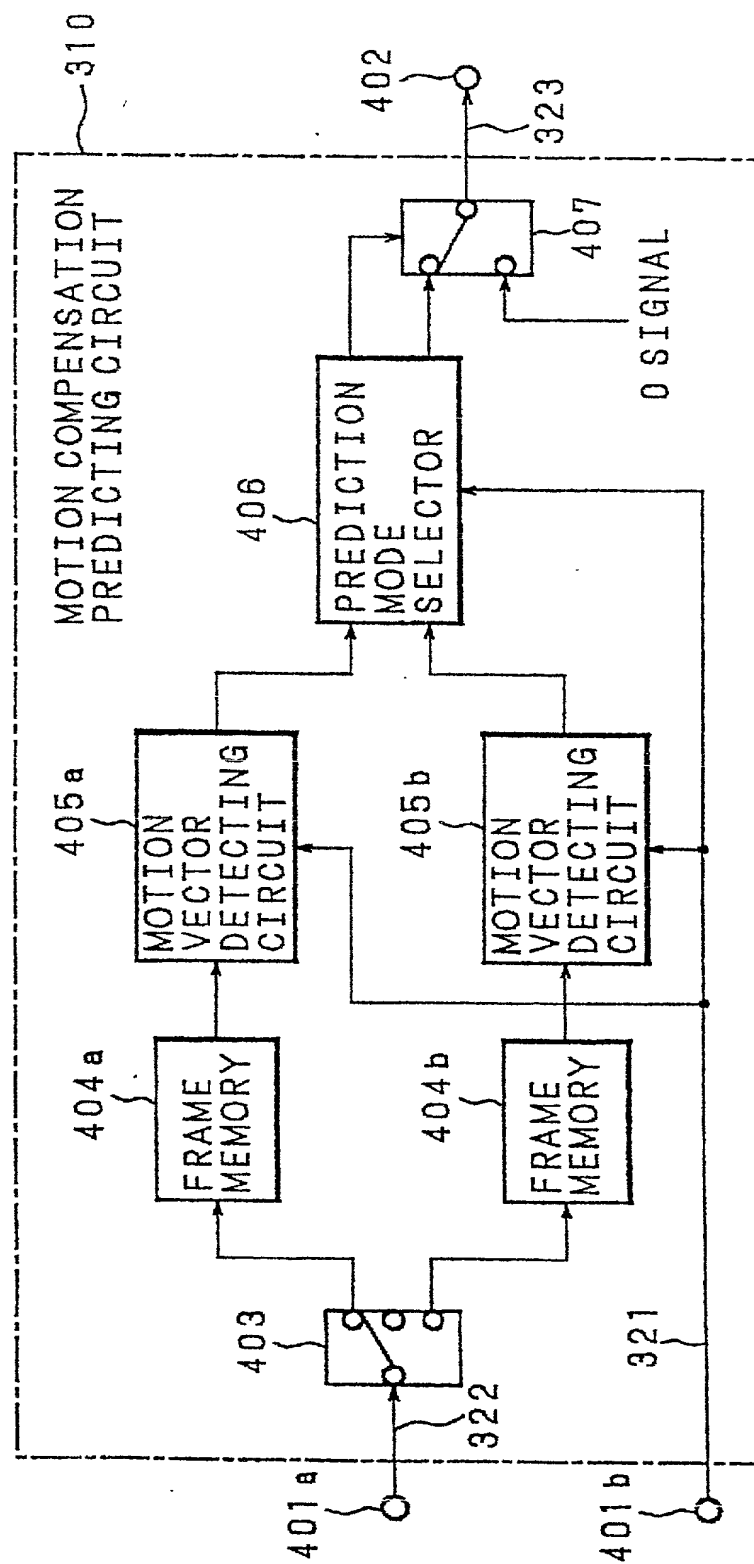
FIG. 3
PRIOR ART

FIG. 5
PRIOR ART

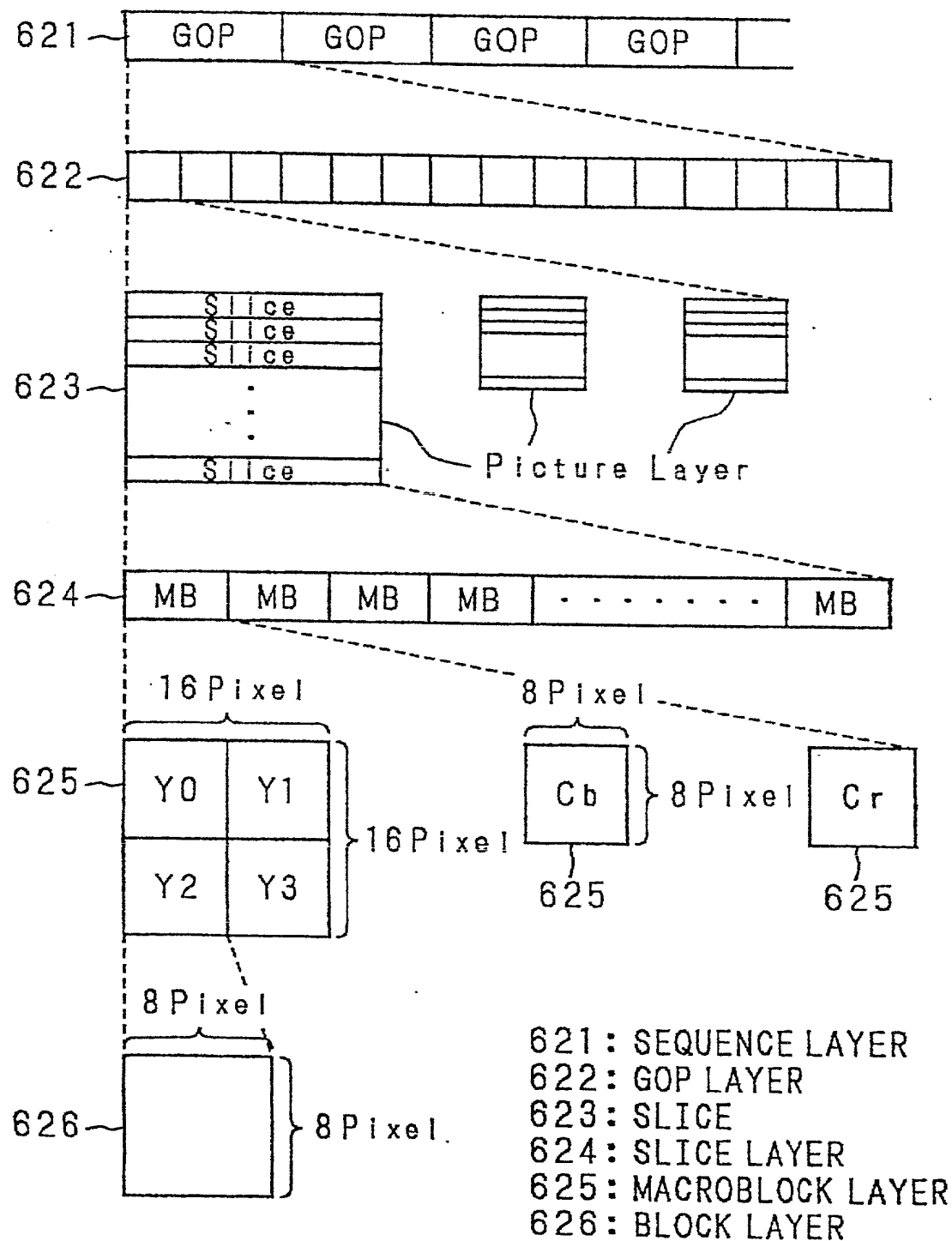


FIG. 6
PRIOR ART

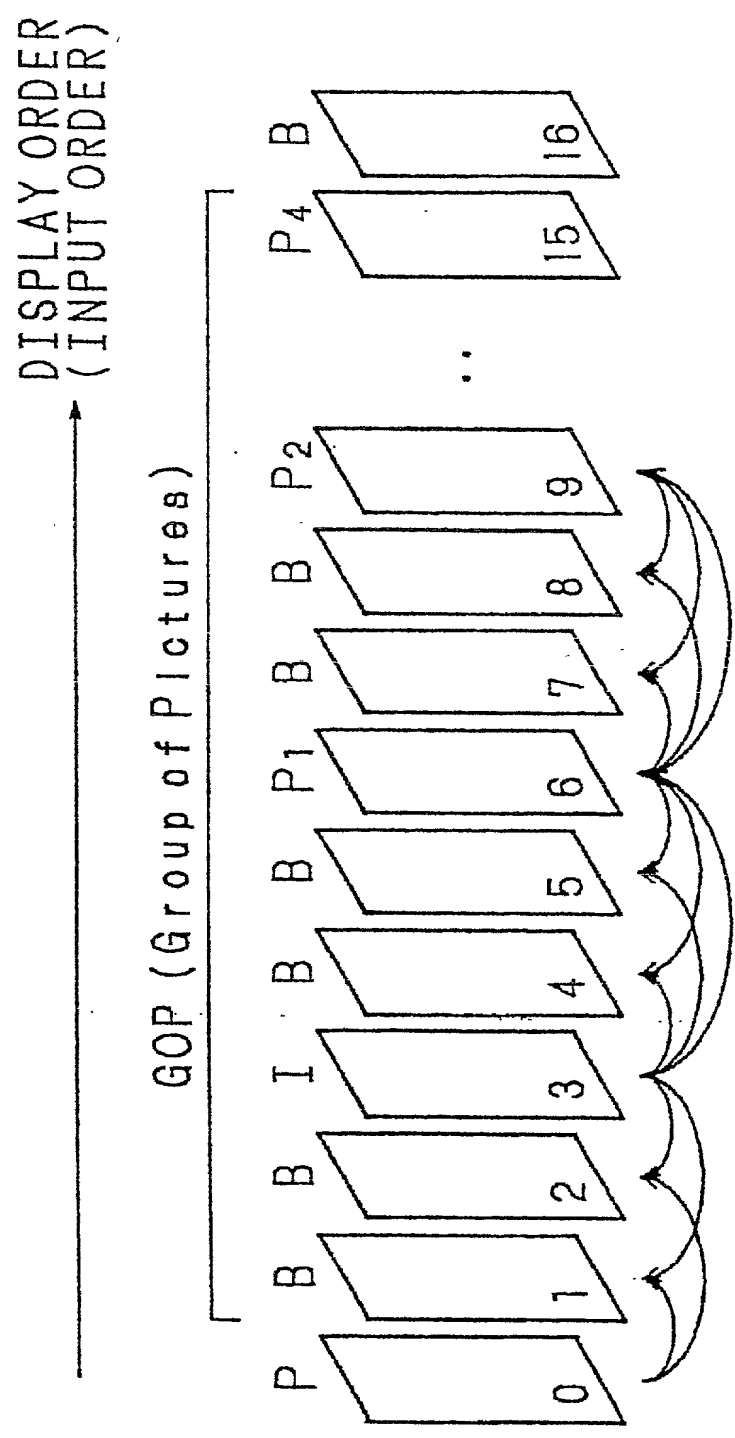


FIG. 7A
PRIOR ART
INPUT ORDER

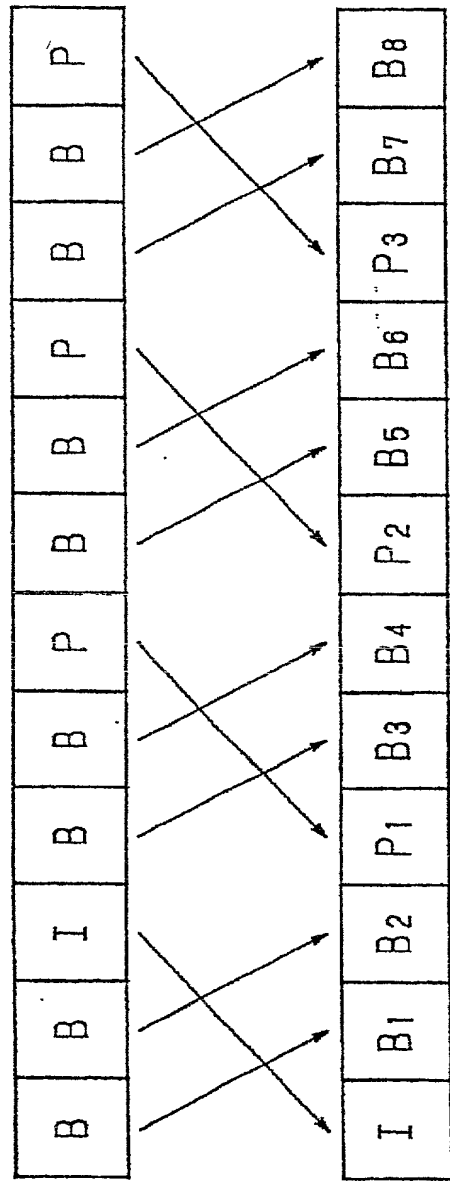


FIG. 7B
PRIOR ART
OUTPUT ORDER

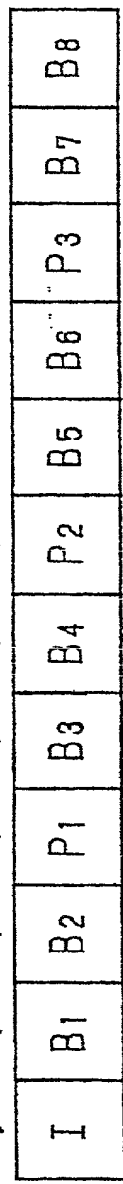


FIG. 8
PRIOR ART

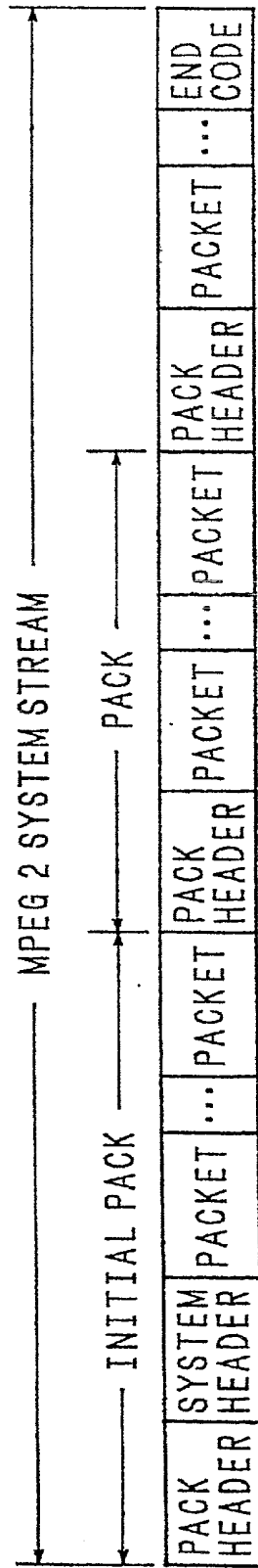


FIG. 9
PRIOR ART

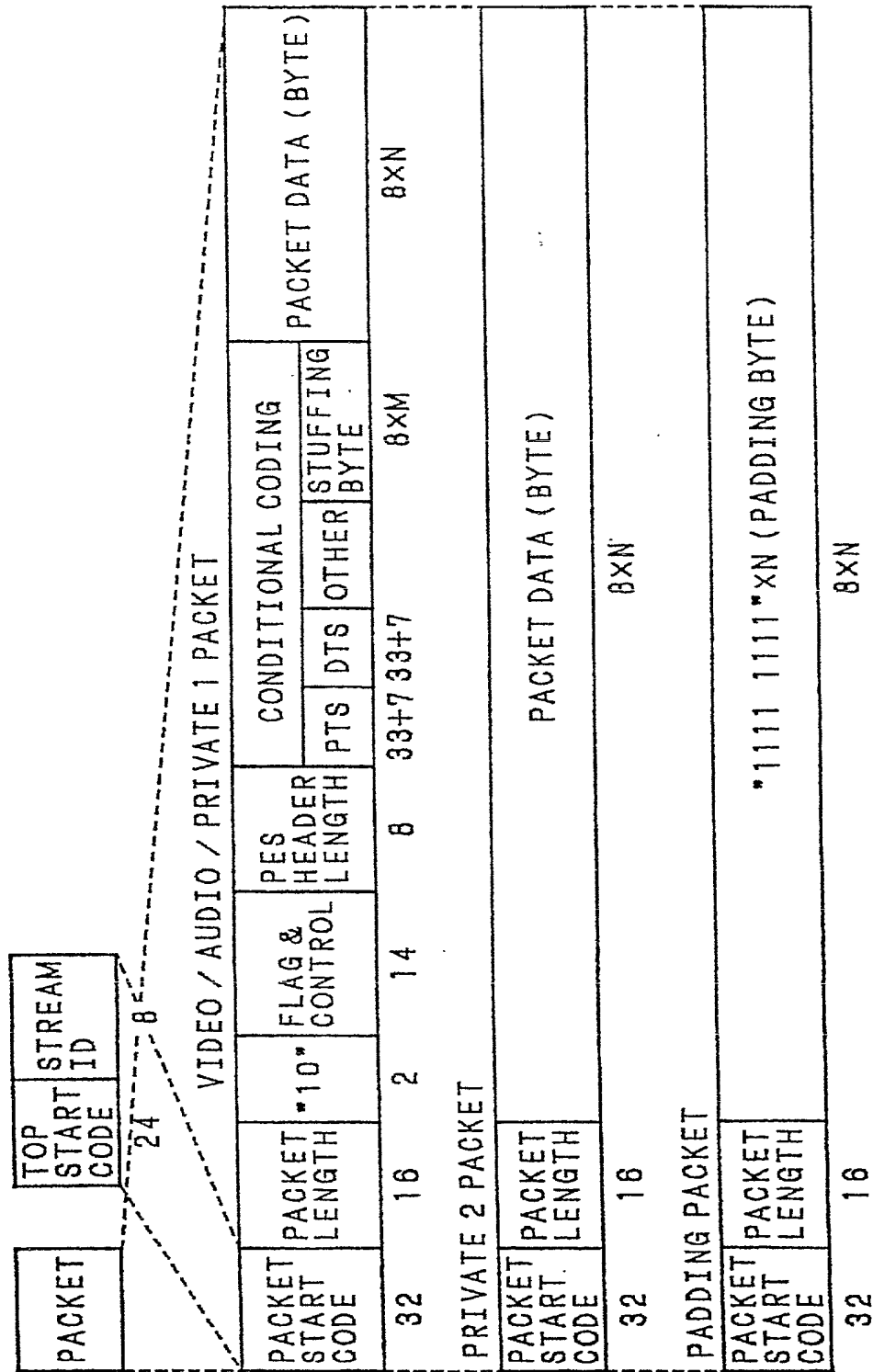


FIG. 10
PRIOR ART

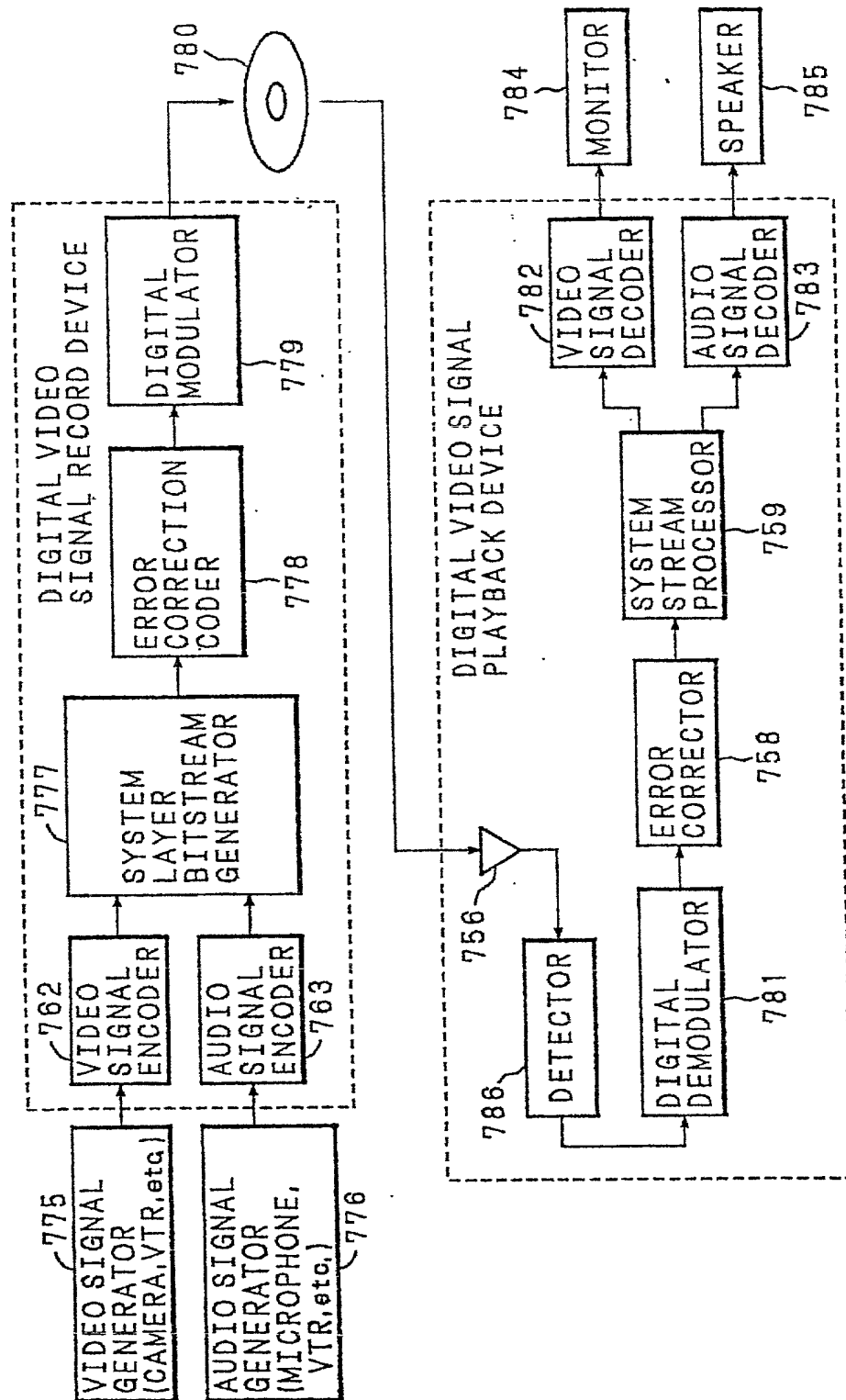


FIG. 11
PRIOR ART

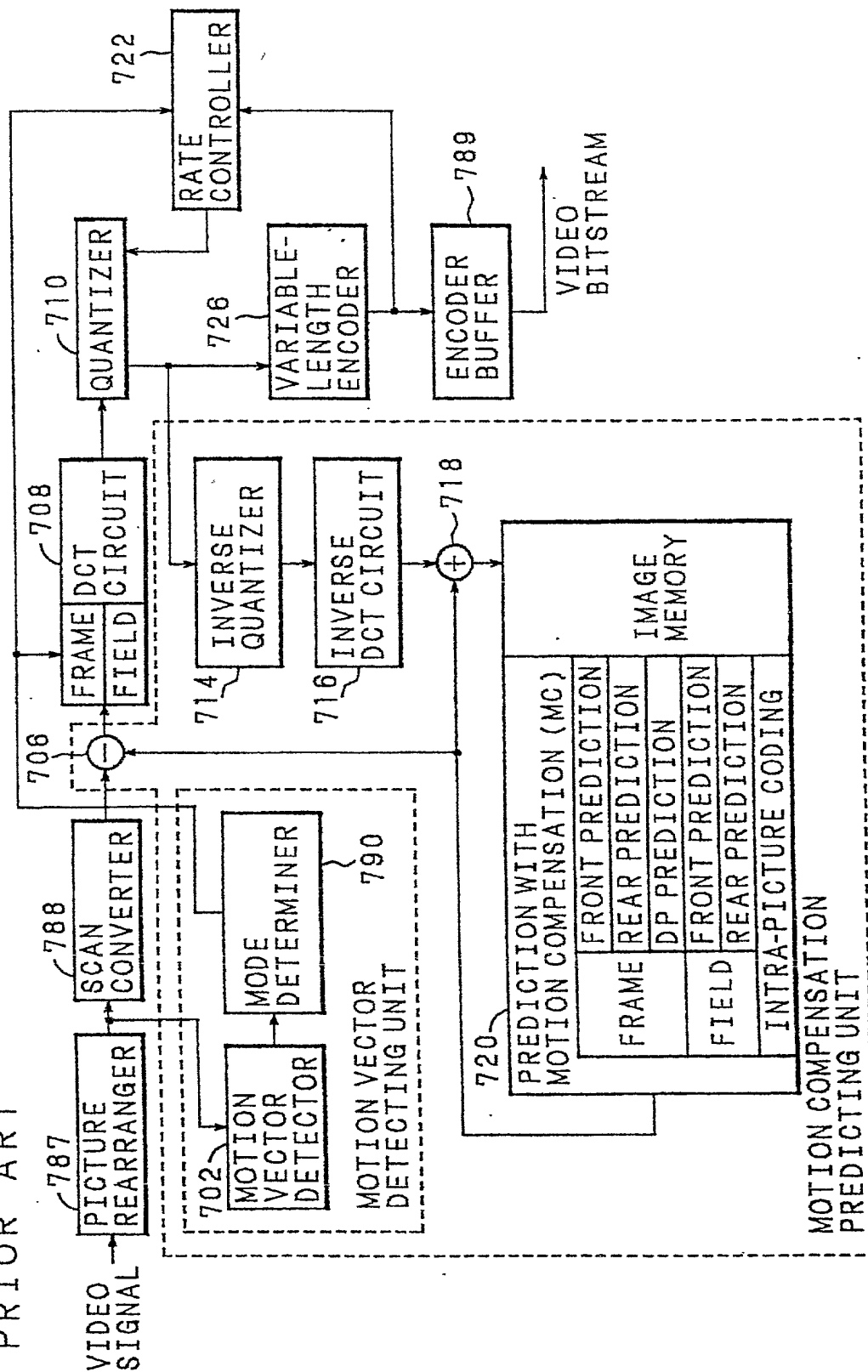


FIG. 12
PRIOR ART

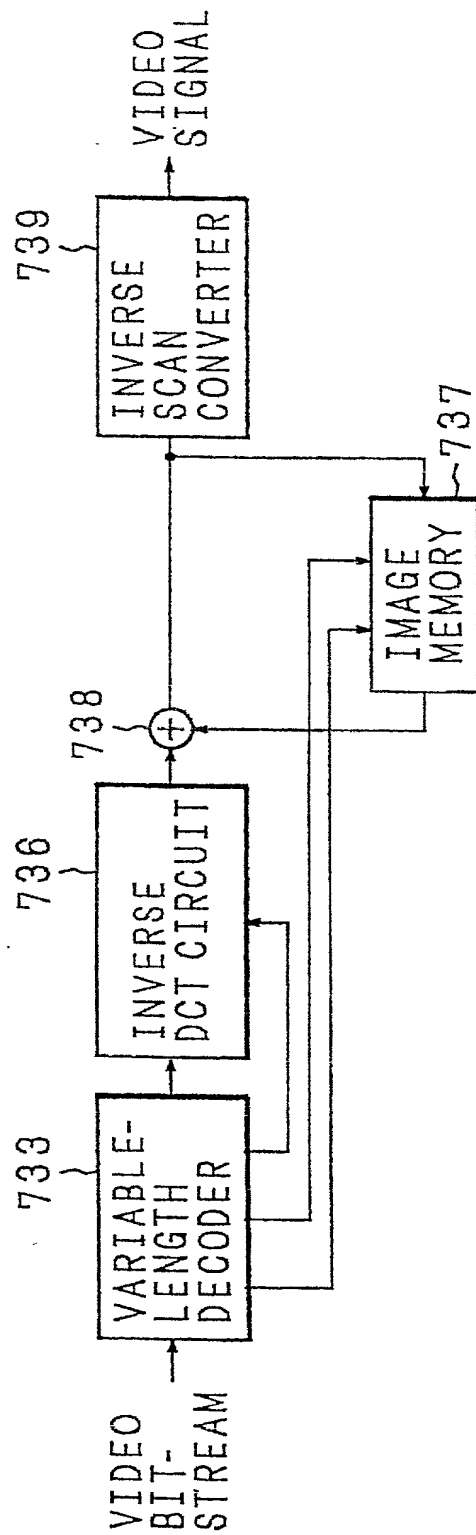
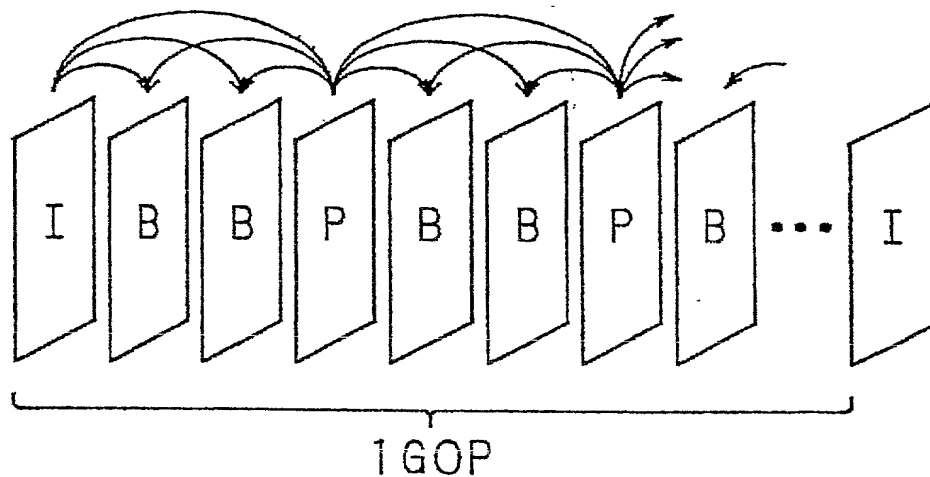


FIG. 13A
PRIOR ART



I: I-PICTURE
P: P-PICTURE
B: B-PICTURE

ARROW SHOWING PREDICTION

FIG. 13B
PRIOR ART

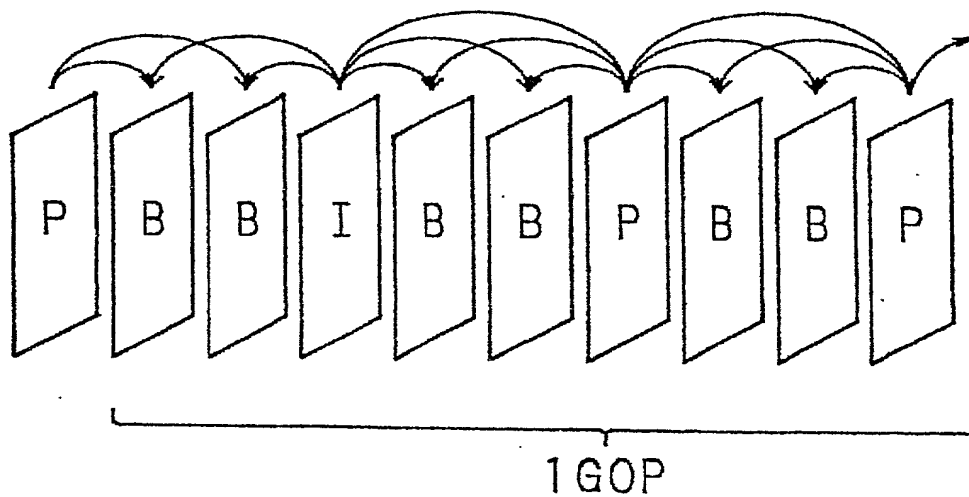


FIG. 14 ART

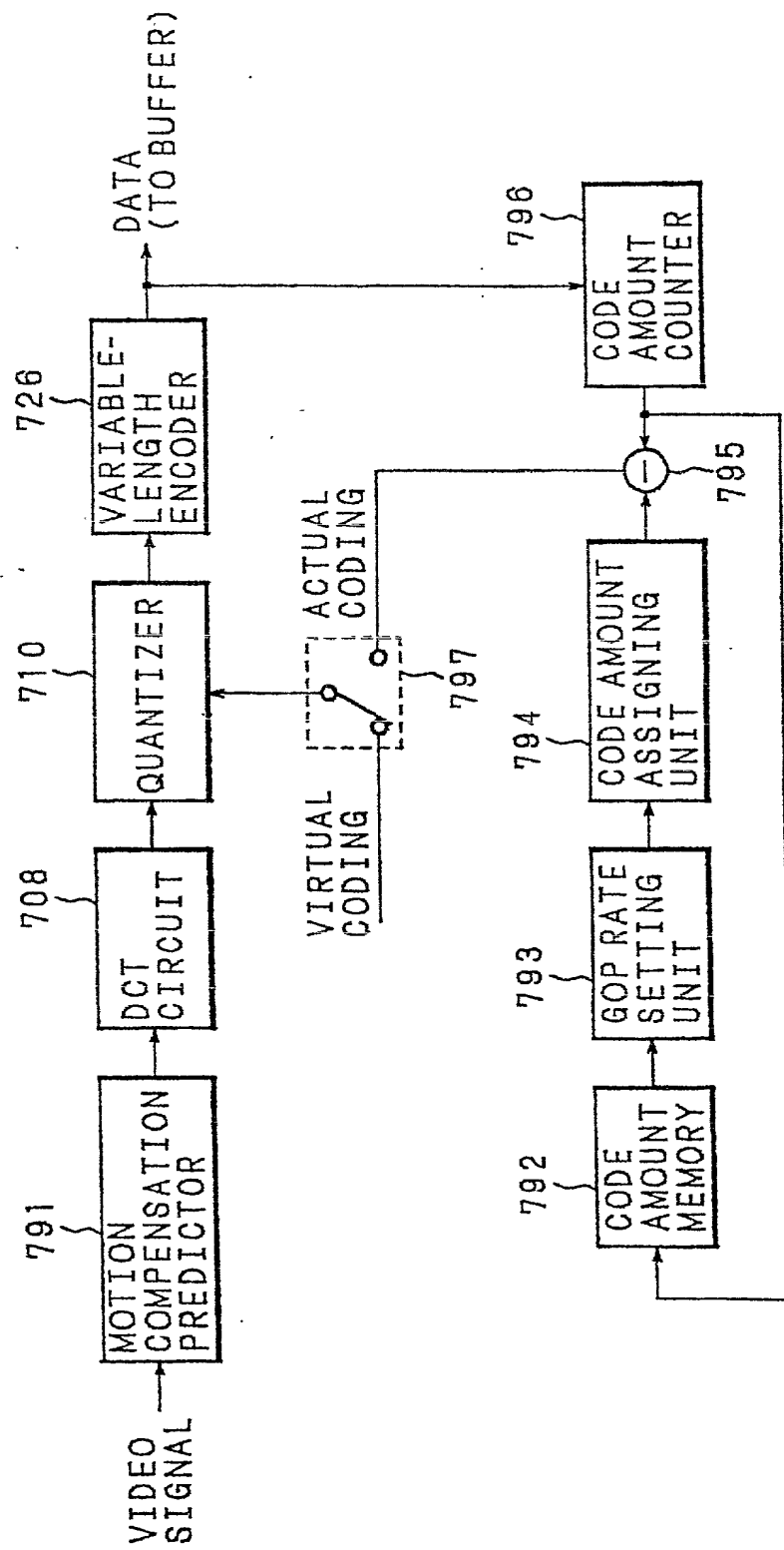


FIG. 15

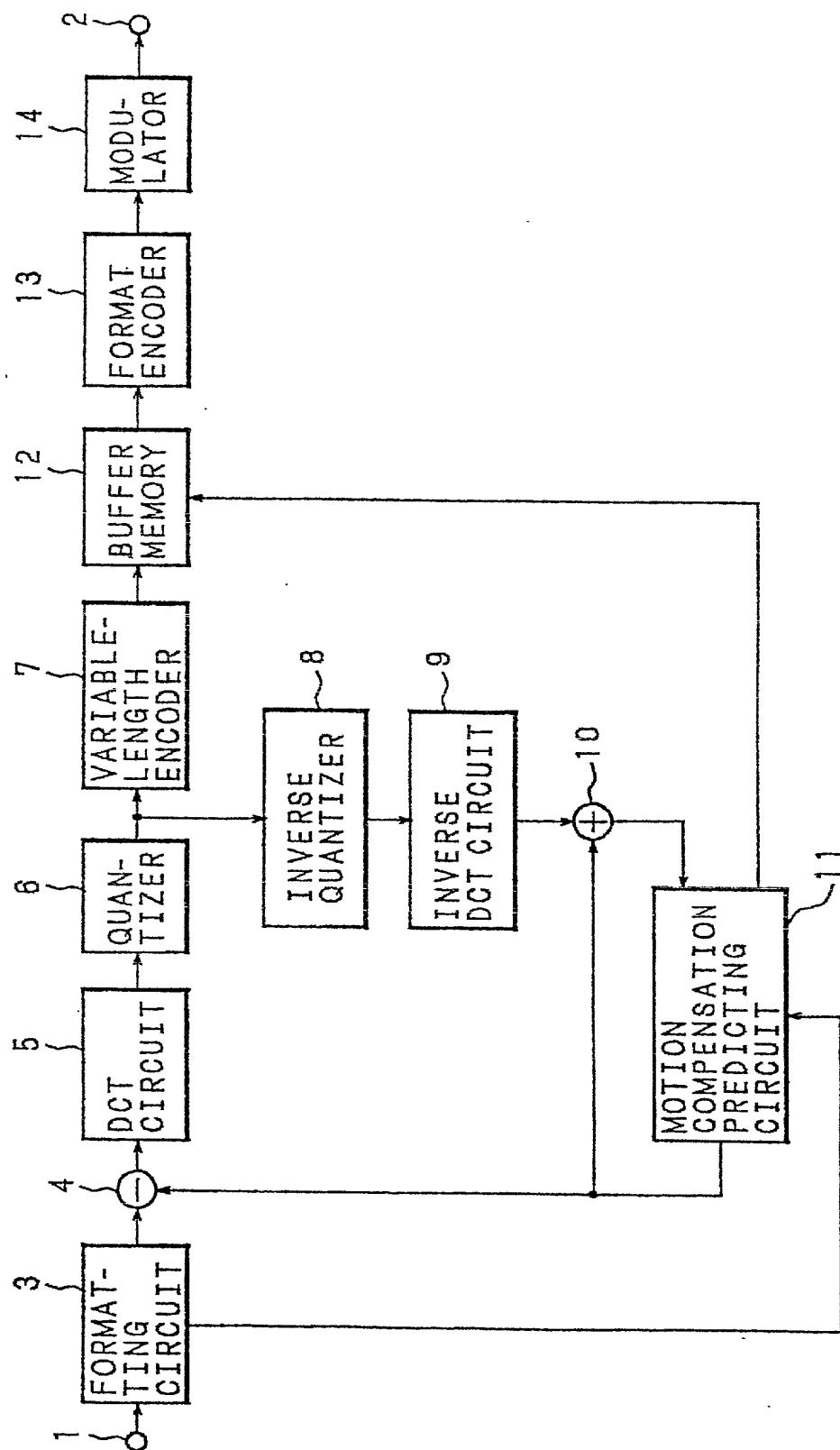


FIG. 16

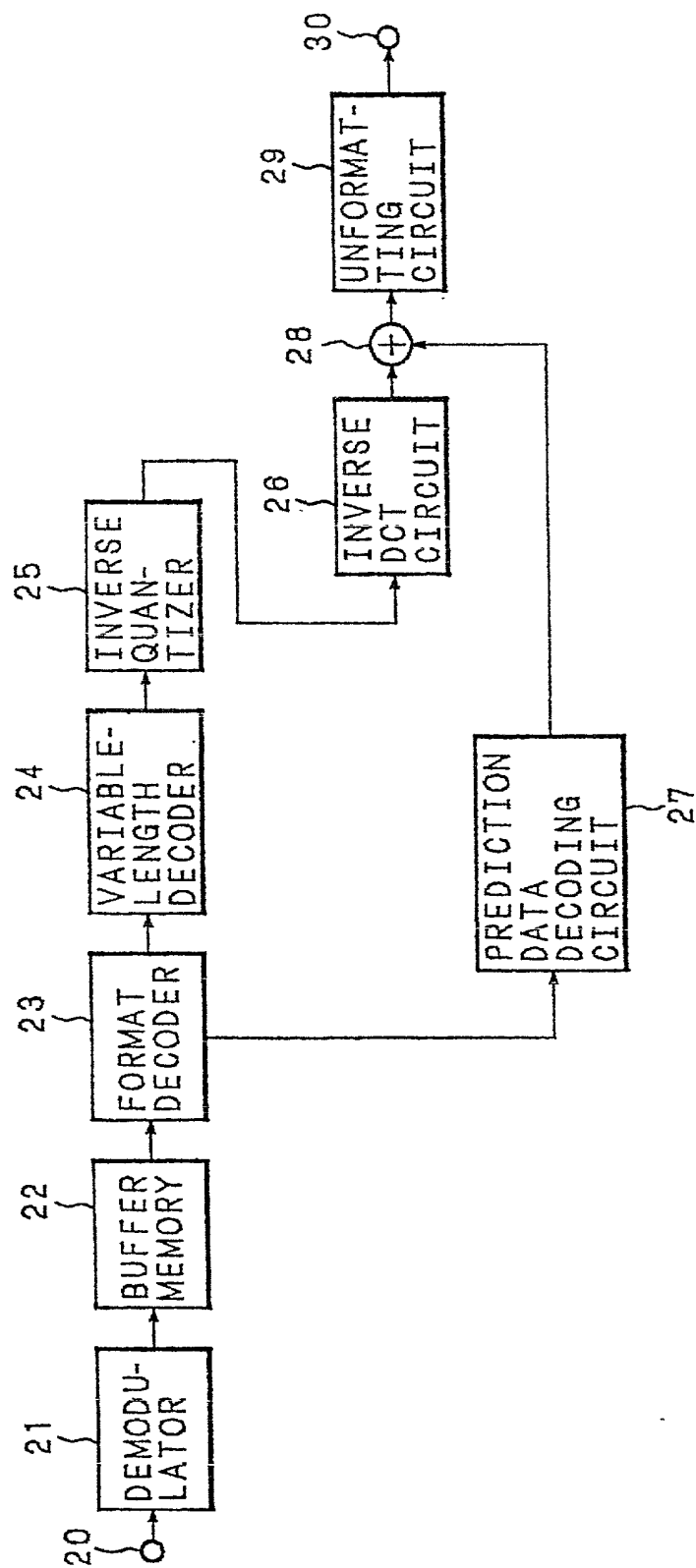
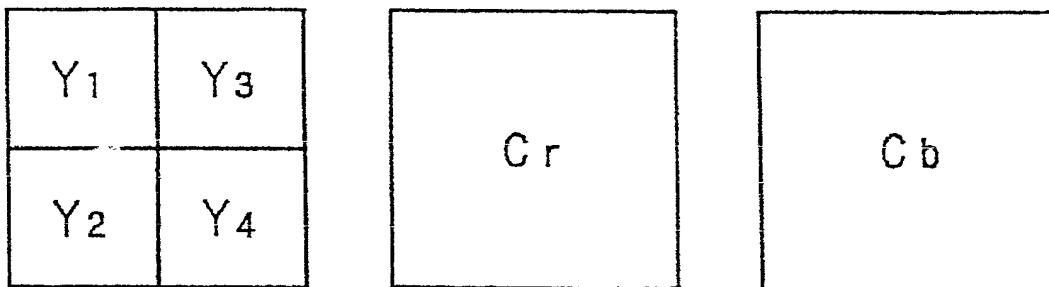


FIG. 17.



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FIG. 18

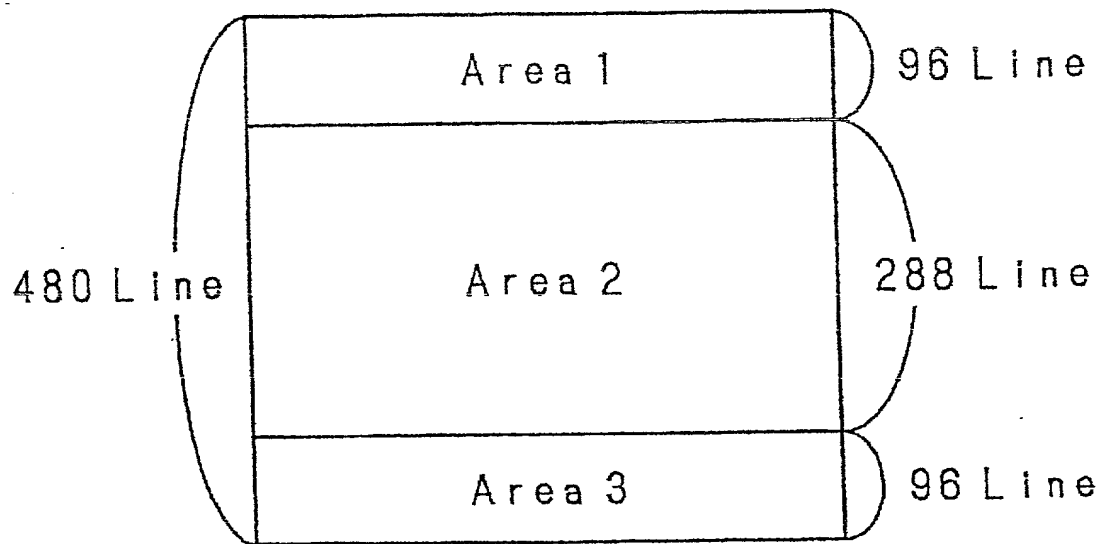


FIG. 19

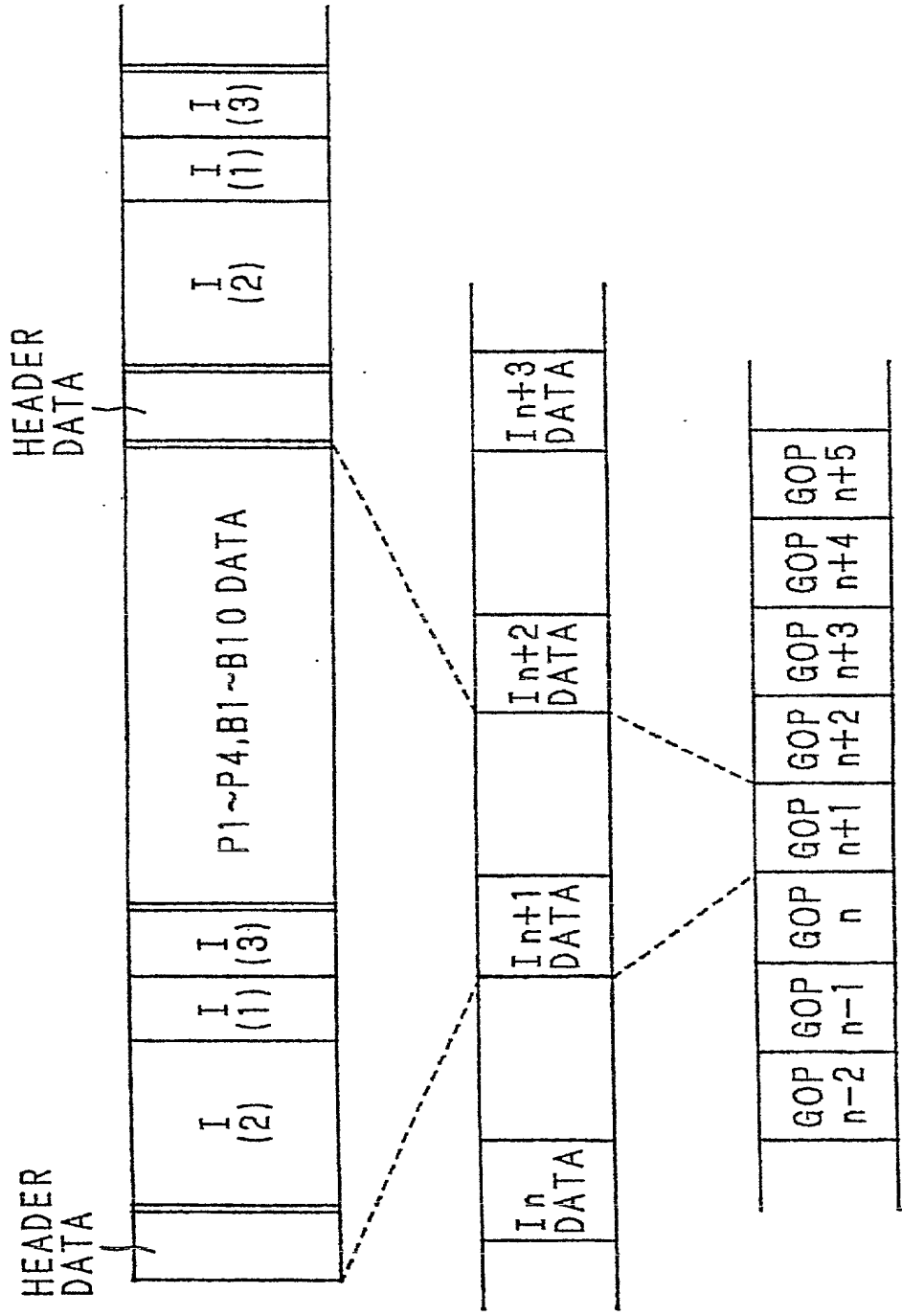


FIG. 20A

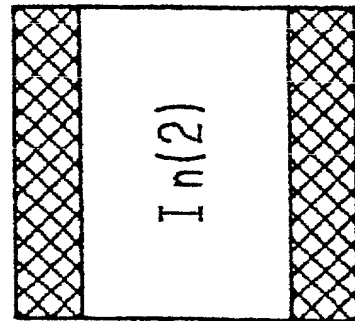


FIG. 20B

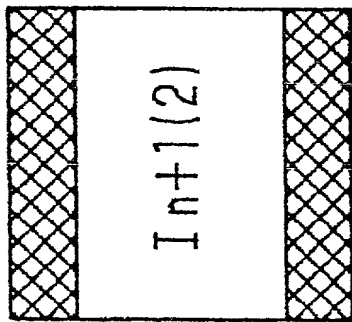


FIG. 20C

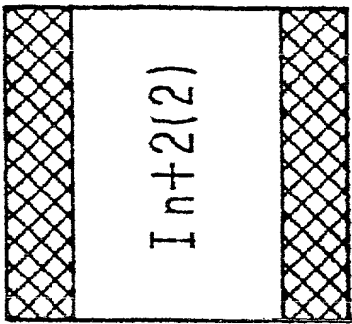


FIG. 20D

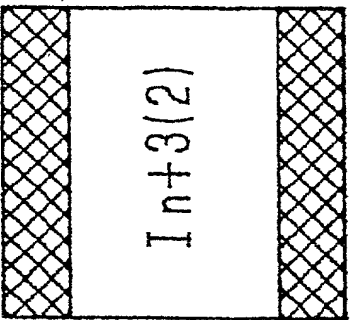
 : MASK DATA

FIG. 22

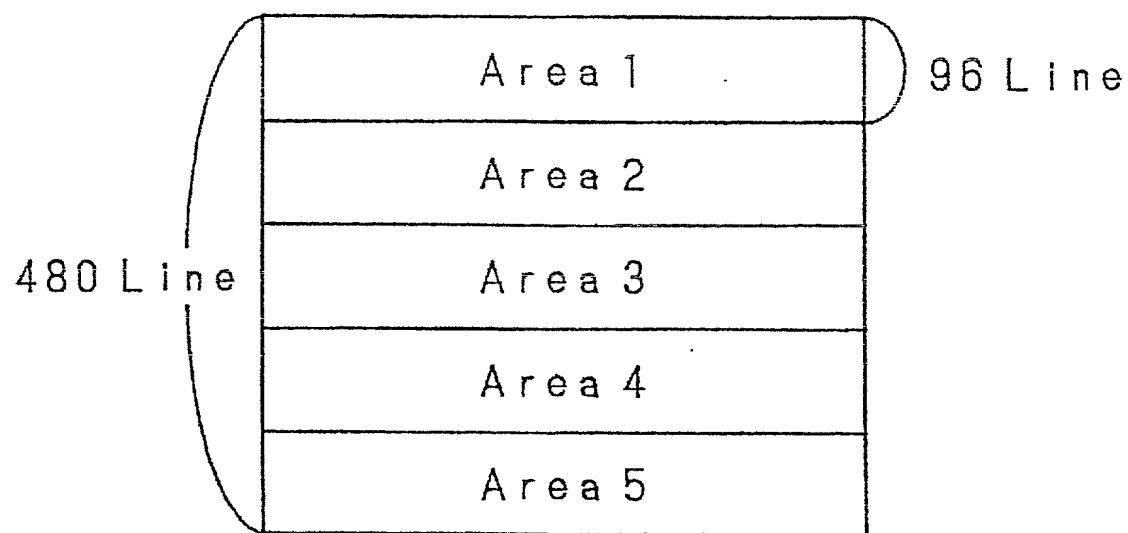


FIG. 23

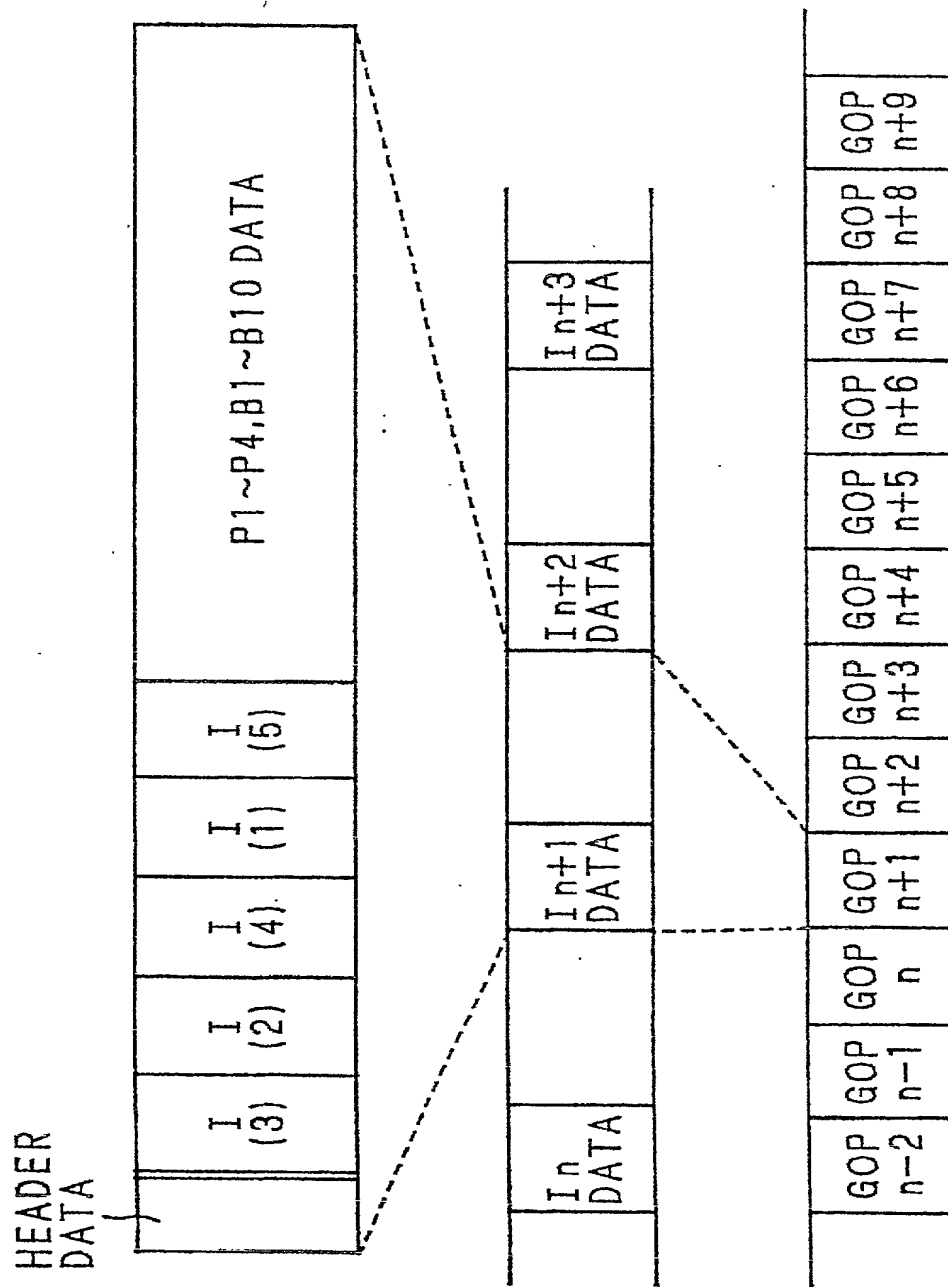


FIG. 24A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 24B

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 24C

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+2}(3)$
$I_{n+2}(4)$
$I_{n+2}(5)$



FIG. 24D

$I_{n+2}(1)$
$I_{n+3}(2)$
$I_{n+3}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 24E

$I_{n+4}(1)$
$I_{n+4}(2)$
$I_{n+4}(3)$
$I_{n+4}(4)$
$I_{n+4}(5)$

FIG. 25A

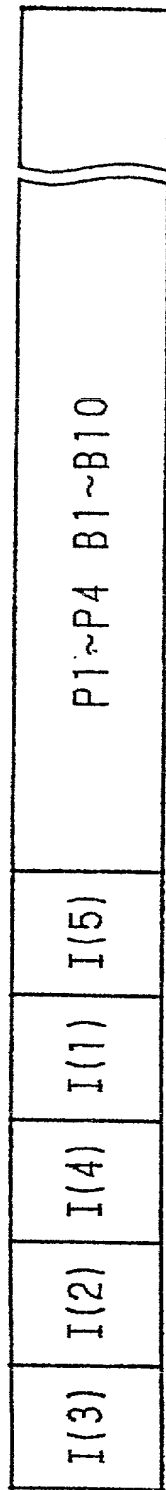


FIG. 25B

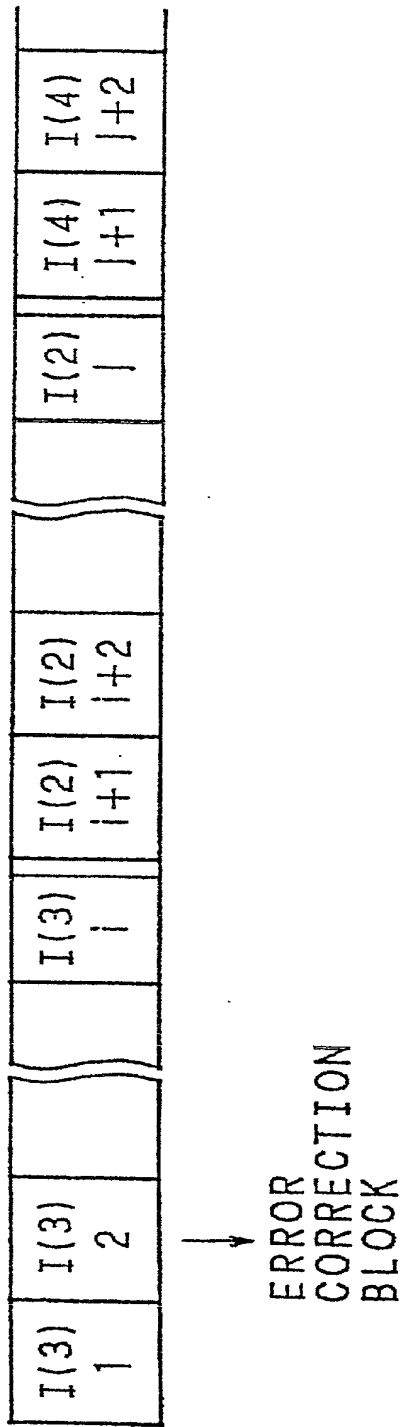


FIG. 26A

$I_{n+4}(1)$
$I_{n+3}(2)$
$I_{n+2}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 26B

$I_{n+5}(1)$
$I_{n+4}(2)$
$I_{n+3}(3)$
$I_{n+2}(4)$
$I_{n+1}(5)$



FIG. 26C

$I_{n+6}(1)$
$I_{n+5}(2)$
$I_{n+4}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 26D

$I_{n+7}(1)$
$I_{n+6}(2)$
$I_{n+5}(3)$
$I_{n+4}(4)$
$I_{n+3}(5)$

FIG. 27A

$I_{n+2}(1)$
$I_{n+1}(2)$
$I_n(3)$
$I_{n-1}(4)$
$I_{n-2}(5)$



$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+1}(3)$
$I_n(4)$
$I_{n-1}(5)$



$I_{n+4}(1)$
$I_{n+3}(2)$
$I_{n+2}(3)$
$I_{n+1}(4)$
$I_n(5)$



$I_{n+5}(1)$
$I_{n+4}(2)$
$I_{n+3}(3)$
$I_{n+2}(4)$
$I_n(5)$



FIG. 27D

FIG. 27C

FIG. 27E

$I_{n+6}(1)$
$I_{n+5}(2)$
$I_{n+4}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



$I_{n+7}(1)$
$I_{n+6}(2)$
$I_{n+5}(3)$
$I_{n+4}(4)$
$I_{n+3}(5)$

FIG. 27F

FIG. 28

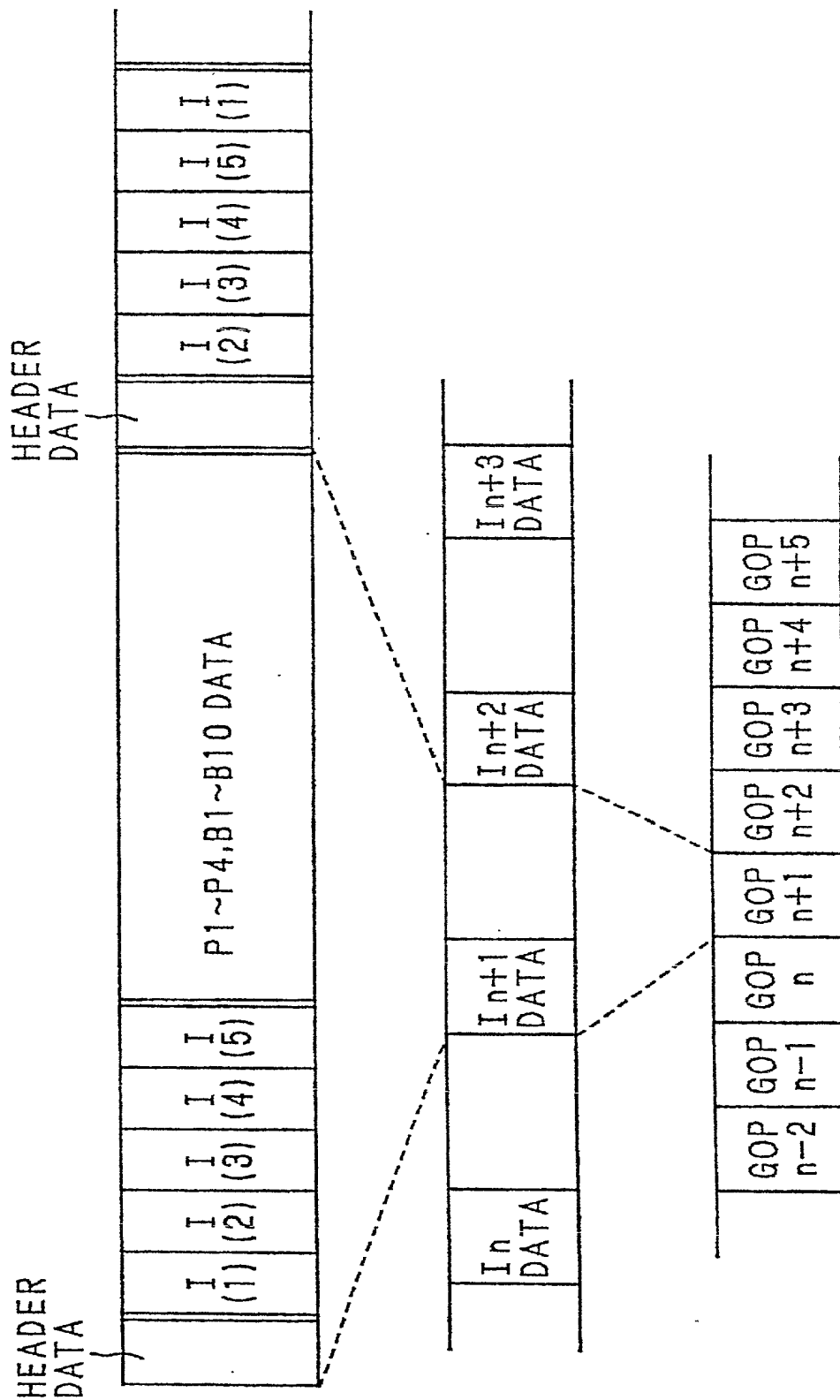


FIG. 29A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 29B

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 29C

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+2}(3)$
$I_{n+2}(4)$
$I_{n+2}(5)$



FIG. 29D

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+3}(3)$
$I_{n+3}(4)$
$I_{n+3}(5)$



FIG. 29E

$I_{n+4}(1)$
$I_{n+4}(2)$
$I_{n+4}(3)$
$I_{n+4}(4)$
$I_{n+4}(5)$

FIG. 31A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 31B

$P1_n(1)$
$P1_n(2)$
$P1_n(3)$
$P1_n(4)$
$P1_n(5)$



FIG. 31C

$P2_n(1)$
$P2_n(2)$
$P2_n(3)$
$P2_n(4)$
$P2_n(5)$



FIG. 31D

$P3_n(1)$
$P3_n(2)$
$P3_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 31E

$P3_n(1)$
$P4_n(2)$
$P4_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 31F

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_{n+1}(5)$

FIG. 32A

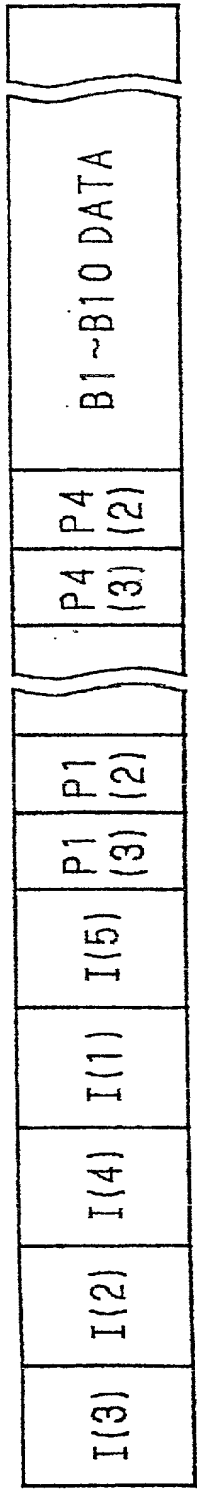
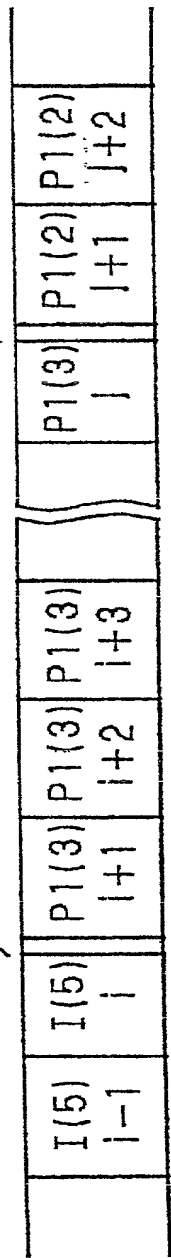


FIG. 32B



↓
ERROR
CORRECTION
BLOCK

FIG. 33A

$P_{4n}(1)$
$P_{3n}(2)$
$P_{2n}(3)$
$P_{1n}(4)$
$I_n(5)$



FIG. 33B

$I_{n+1}(1)$
$P_{4n}(2)$
$P_{3n}(3)$
$P_{2n}(4)$
$P_{1n}(5)$



FIG. 33C

$P_{1n+1}(1)$
$I_{n+1}(2)$
$P_{4n}(3)$
$P_{3n}(4)$
$P_{2n}(5)$



FIG. 33D

$P_{2n+1}(1)$
$P_{1n+1}(2)$
$I_{n+1}(3)$
$P_{4n}(4)$
$P_{5n+1}(5)$



FIG. 33E

$P_{3n+1}(1)$
$P_{2n+1}(2)$
$P_{1n+1}(3)$
$I_{n+1}(4)$
$P_{4n}(5)$



FIG. 33F

$P_{4n+1}(1)$
$P_{3n+1}(2)$
$P_{2n+1}(3)$
$P_{1n+1}(4)$
$I_{n+1}(5)$



FIG. 33G

$I_{n+2}(1)$
$P_{4n+1}(2)$
$P_{3n+1}(3)$
$P_{2n+1}(4)$
$P_{1n+1}(5)$



FIG. 34A

P_{3n}	(1)
P_{2n}	(2)
P_{1n}	(3)
I_n	(4)
P_{4n-1}	(5)



FIG. 34B

P_{3n}	(1)
P_{3n}	(2)
P_{2n}	(3)
P_{1n}	(4)
I_n	(5)



FIG. 34C

I_{n+1}	(1)
P_{4n}	(2)
P_{3n}	(3)
P_{2n}	(4)
P_{1n}	(5)



FIG. 34D

P_{1n+1}	(1)
I_{n+1}	(2)
P_{4n}	(3)
P_{3n}	(4)
P_{2n}	(5)



FIG. 34E

P_{2n+1}	(1)
P_{1n+1}	(2)
I_{n+1}	(3)
P_{3n}	(4)
P_{3n}	(5)



FIG. 34F

P_{3n+1}	(1)
P_{2n+1}	(2)
P_{1n+1}	(3)
I_{n+1}	(4)
P_{3n}	(5)

FIG. 36A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 36B

$P1_n(1)$
$P1_n(2)$
$P1_n(3)$
$P1_n(4)$
$P1_n(5)$



FIG. 36C

$P2_n(1)$
$P2_n(2)$
$P2_n(3)$
$P2_n(4)$
$P2_n(5)$



FIG. 36D

$P3_n(1)$
$P3_n(2)$
$P3_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 36E

$P4_n(1)$
$P4_n(2)$
$P3_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 36F

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_{n+1}(5)$

FIG. 37

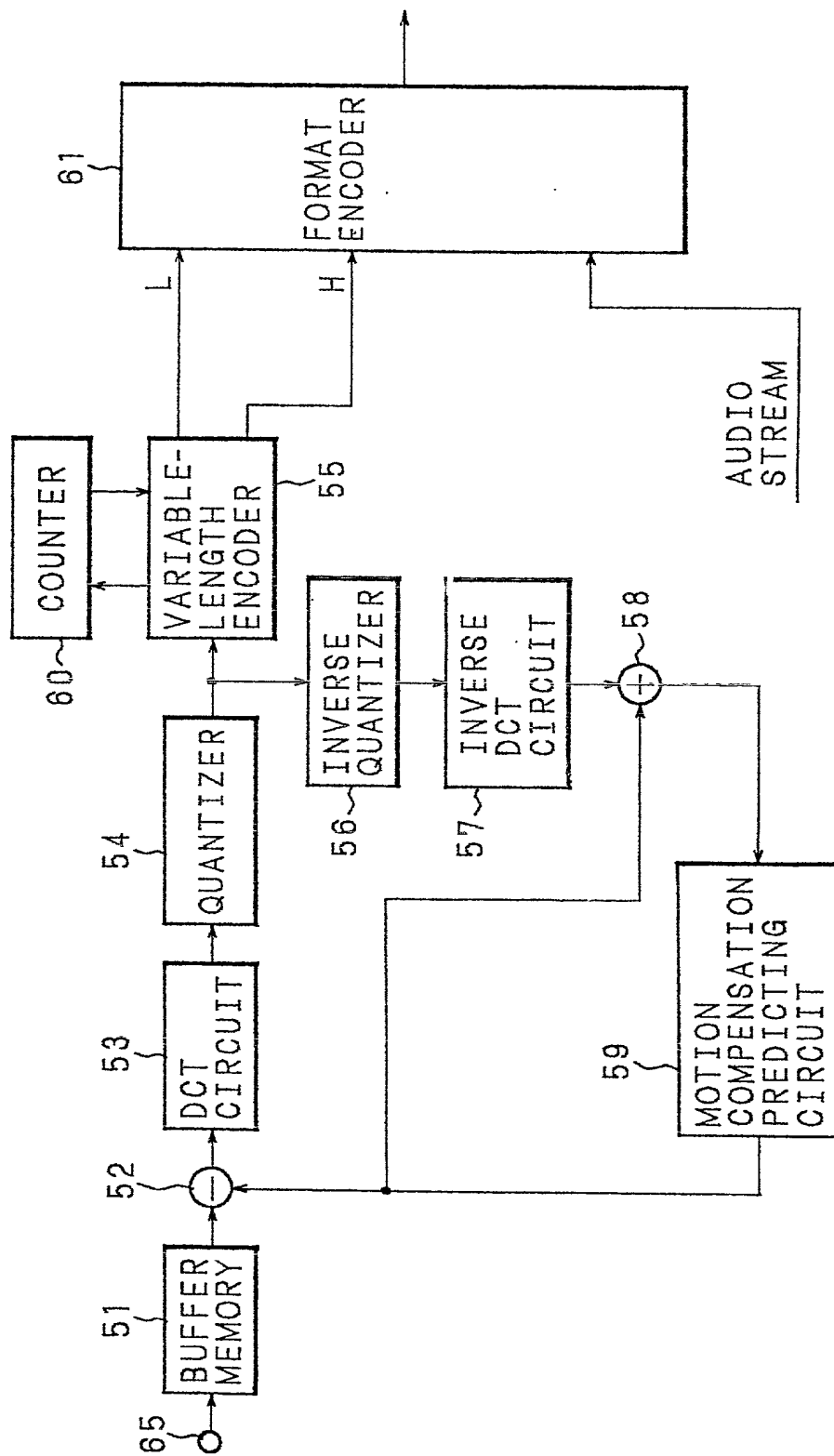
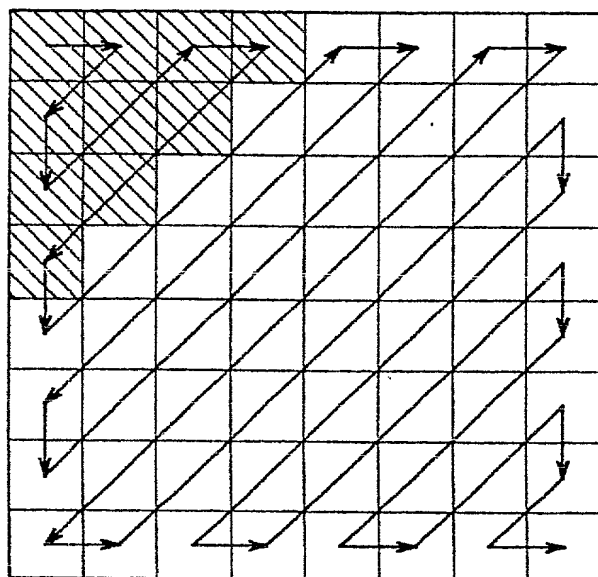
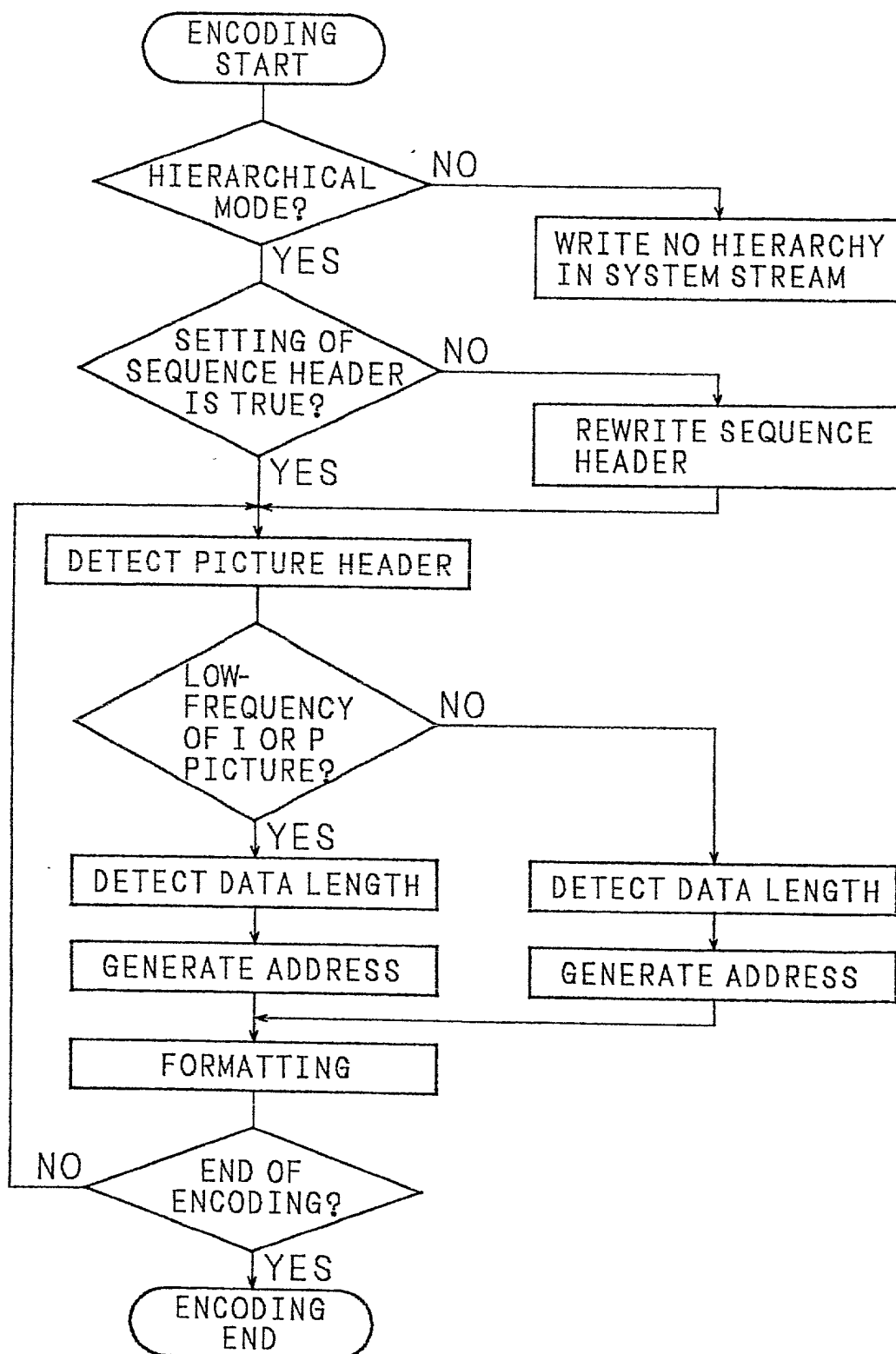


FIG. 38



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FIG. 39



10033267.00000000

FIG. 40

```

sequence_scalable_extension(){
    extension_start_code_identifier
    scalable_mode
    layer_id
    if(scalable_mode=="spatial scalability"){
        lower_layer_prediction_horizontal_size
        maker_bit
        lower_layer_prediction_vertical_size
        horizontal_subsampling_factor_m
        horizontal_subsampling_factor_n
        vertical_subsampling_factor_m
        vertical_subsampling_factor_n
    }
    if(scalable_mode=="temporal scalability"){
        picture_mux_enable
        if(picture_mux_enable)
            mux_to_progressive_sequence
        picture_mux_order
        picture_mux_factor
    }
    next_start_code()
}

slice(){
    slice_start_code
    if(vertical_size>2800)
        slice_vertical_position_extension
    if(<sequence_scalable_extension() is present in the bitstream>){
        if(scalable_mode=="data partitioning")
            priority_breakpoint
    }
    quantiser_scale_code
    if(nextbits()=='1'){
        intra_slice_flag
        intra_slice
        reserved_bits
        while(nextbits()=='1'){
            extra_bit_slice
            extra_information_slice
        }
    }
    extra_bit_slice
    do{
        macroblock()
    }while(nextbits()!='000 0000 0000 0000 0000 0000')
    next_start_code()
}

```


FIG. 41A

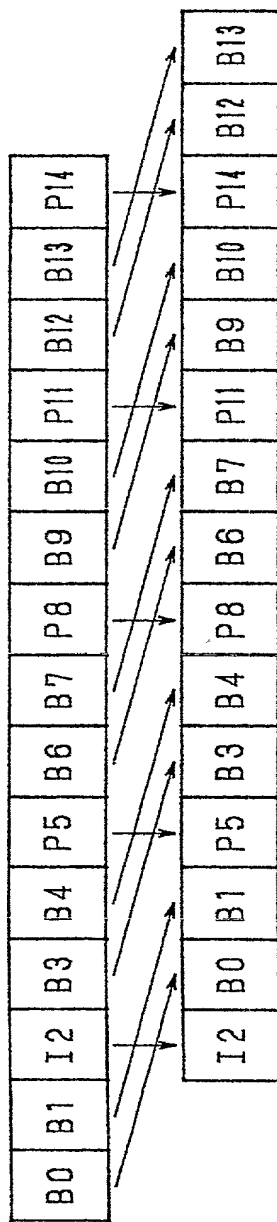


FIG. 41B

BITSTREAM IN
HIERARCHY

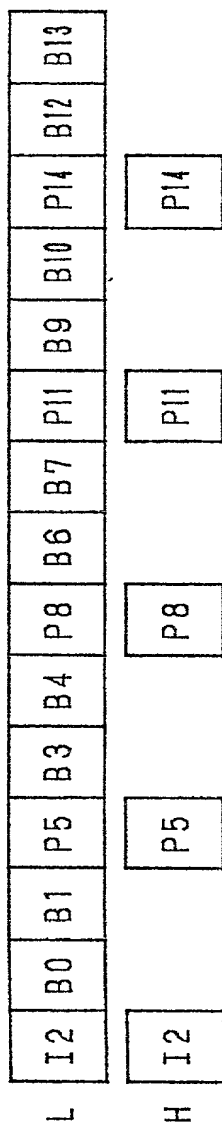


FIG. 41C
REARRANGED BITSTREAM
IN CONSIDERATION OF
SPECIAL PLAYBACK

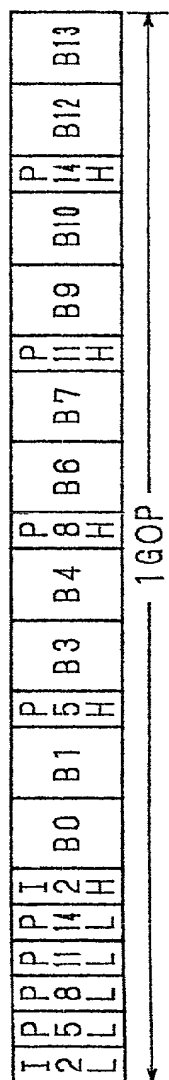


FIG. 41D
PROGRAM
STREAM
FOR DISC
RECORDING

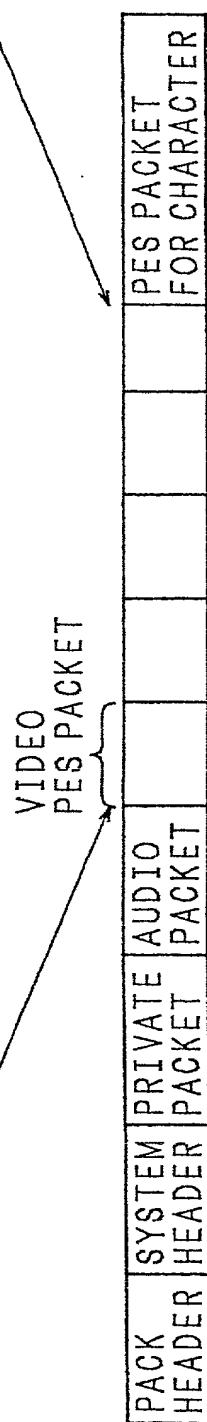
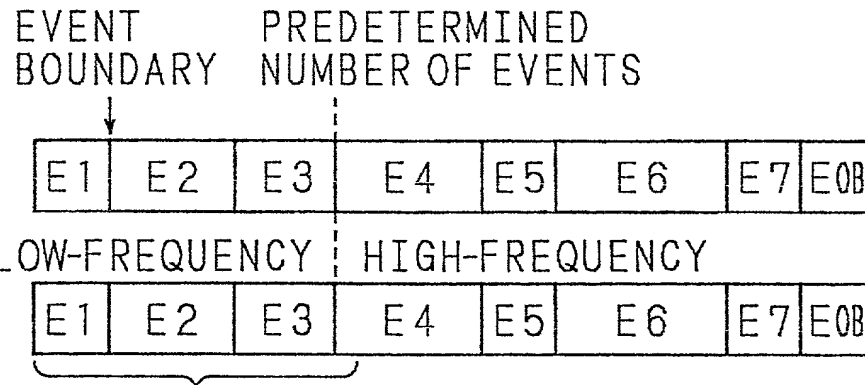
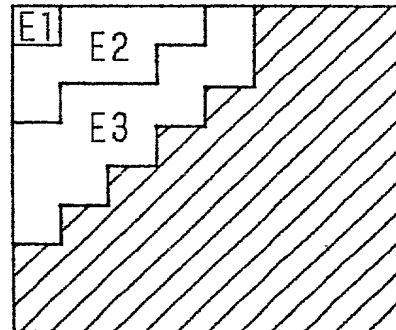


FIG. 44

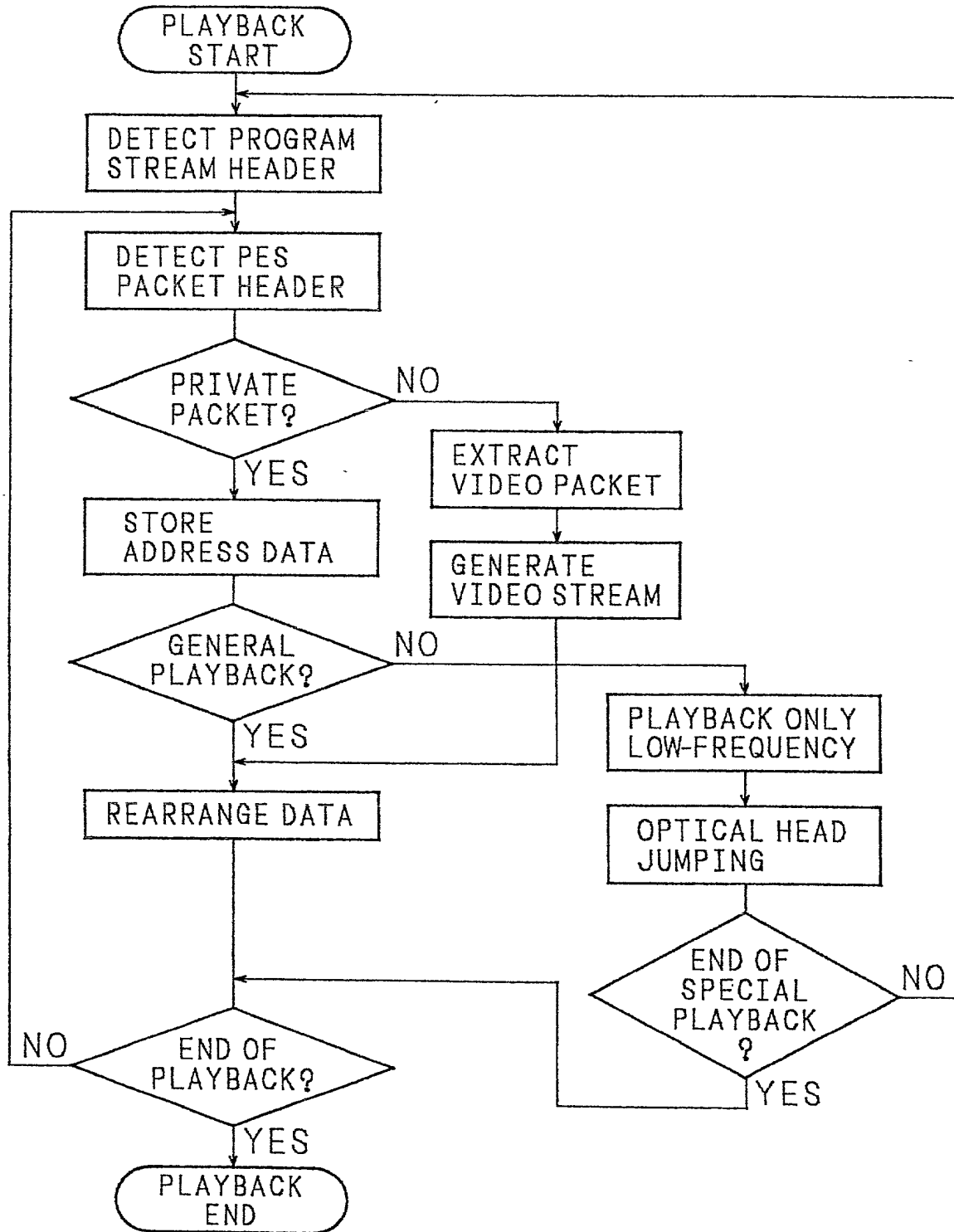


IN MODE WHERE THESE
AREAS ARE DECODED,
ALL AREAS PROCEEDING
E4 ARE DISCARDED
AND "0" IS INSERTED
INTO HATCHED AREA



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FIG. 45



10033267.000702

FIG. 47

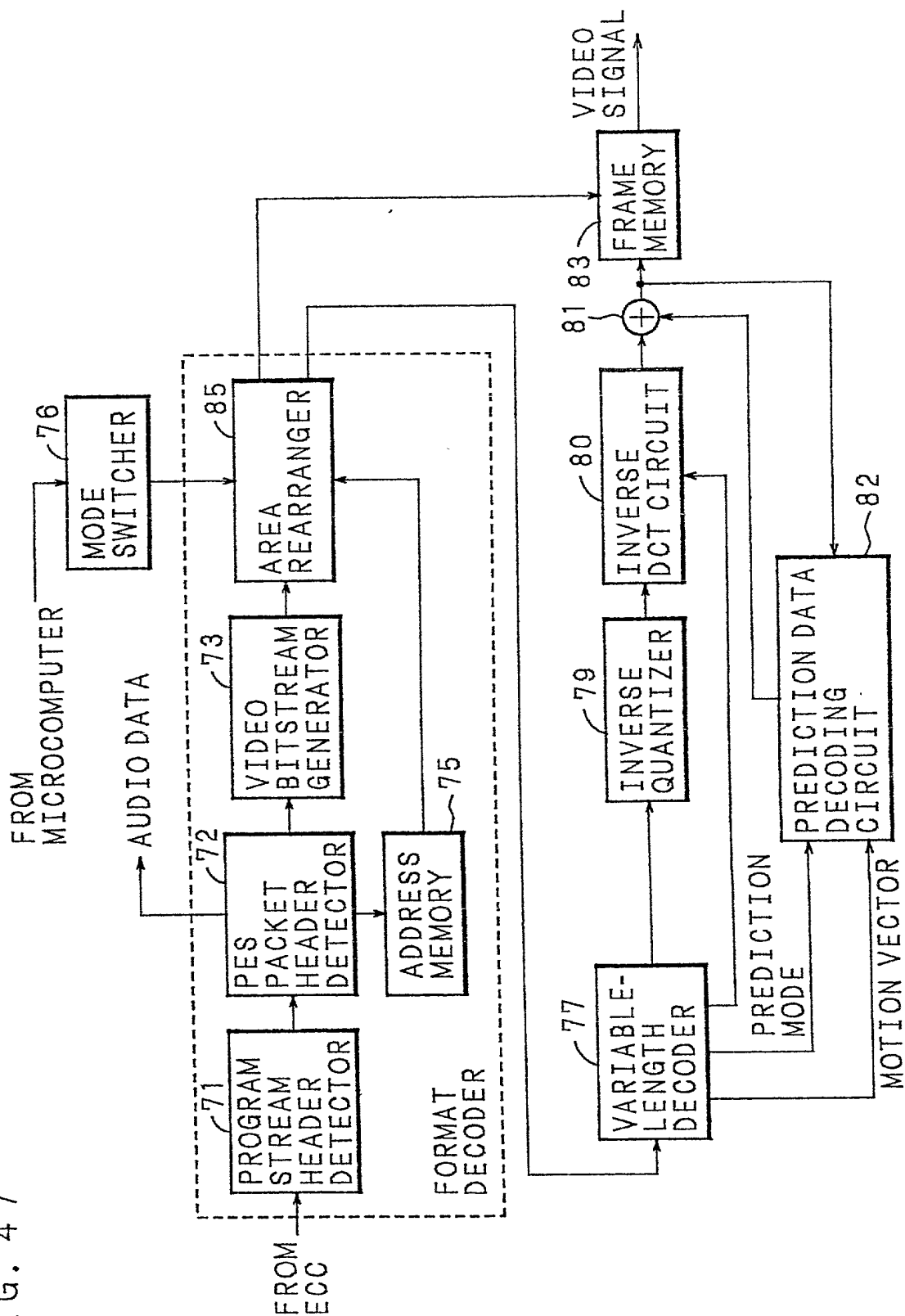


FIG. 48

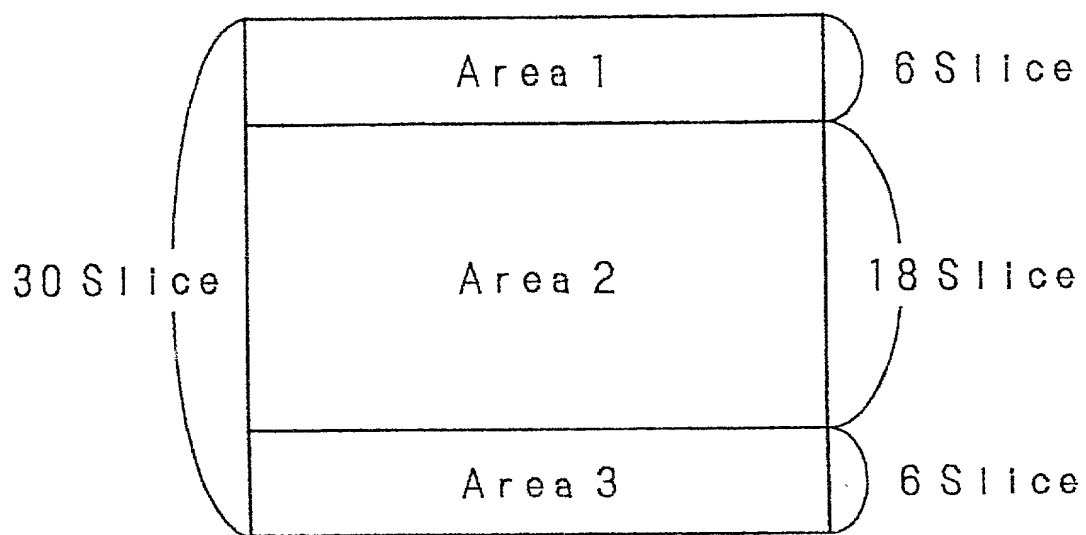


FIG. 49

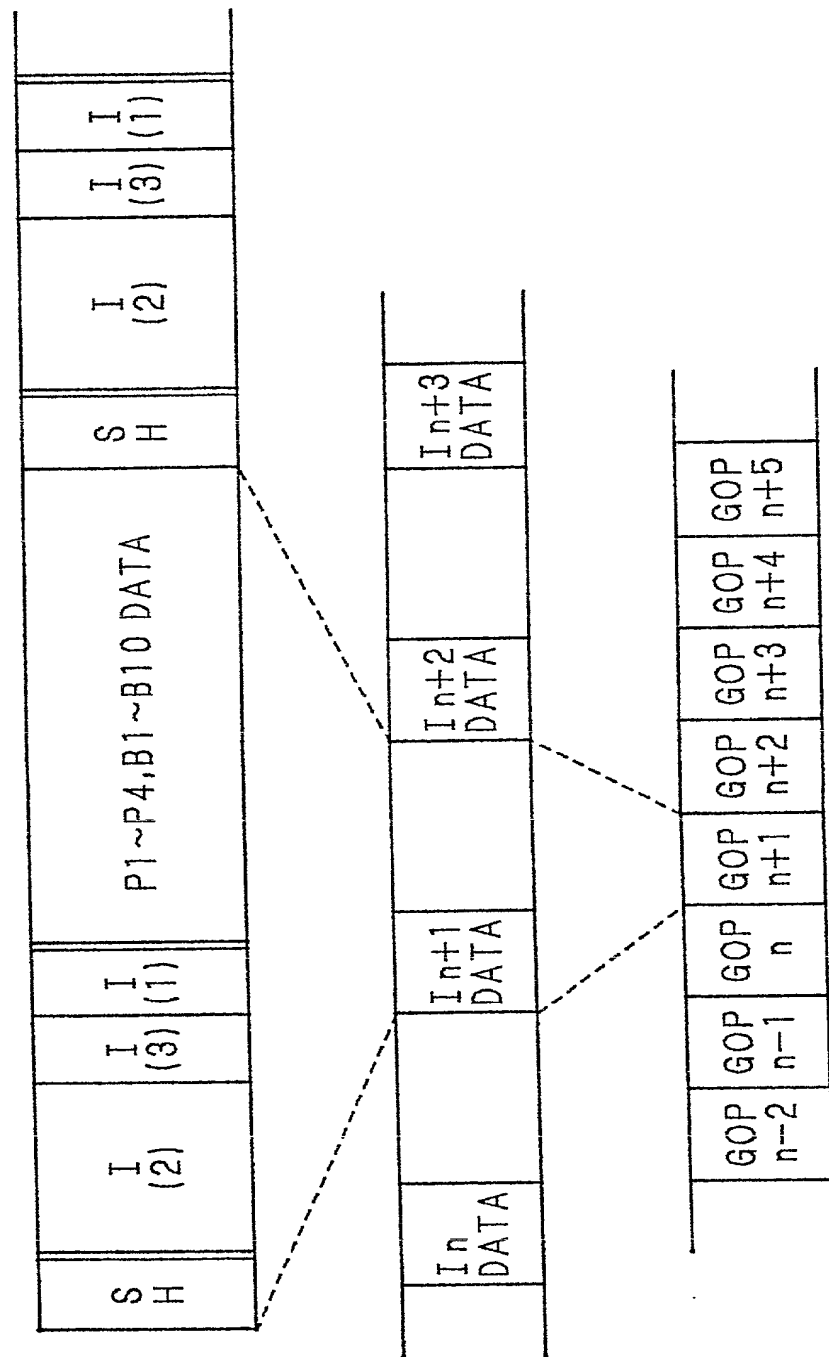


FIG. 50

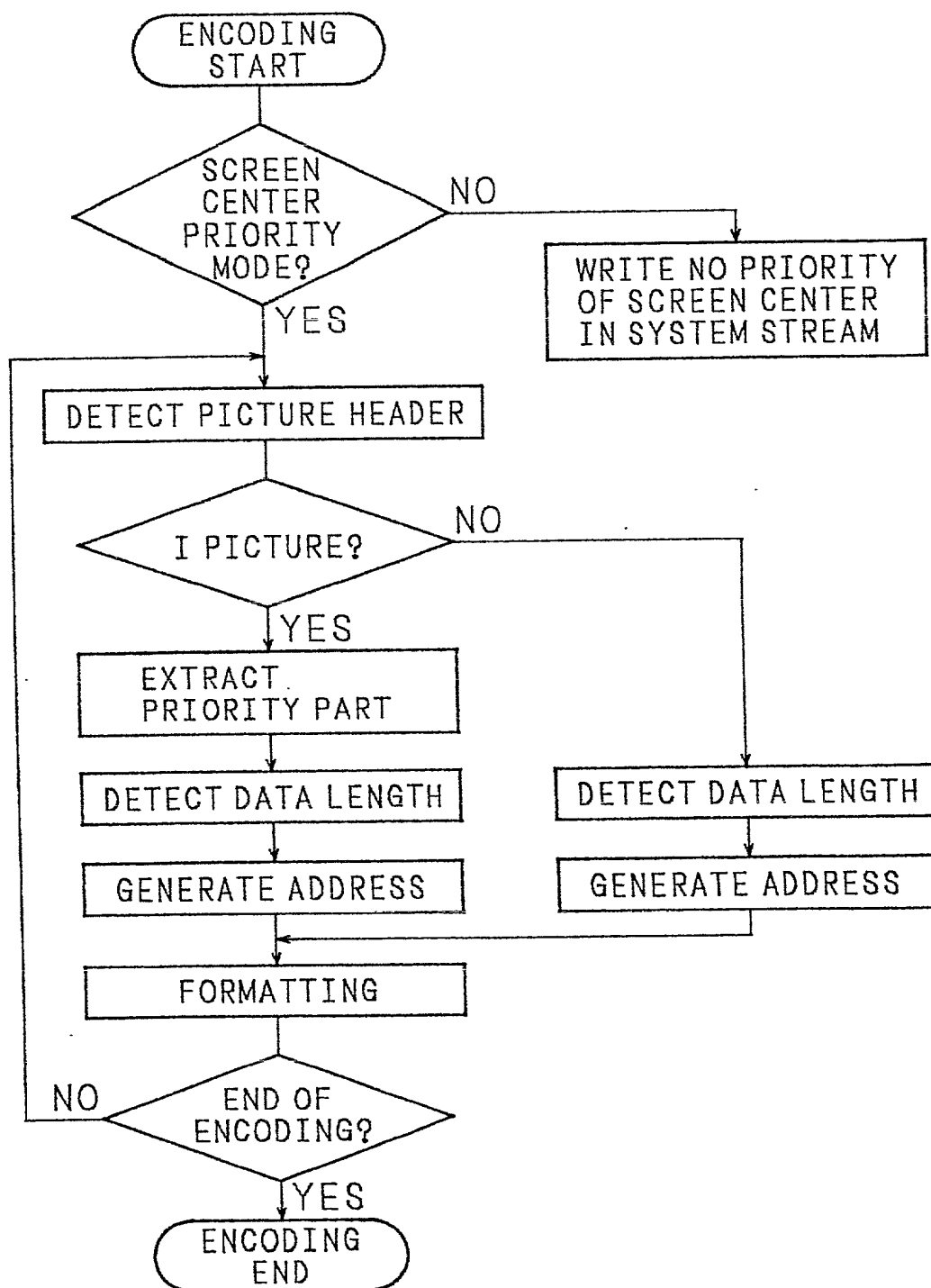


FIG. 51

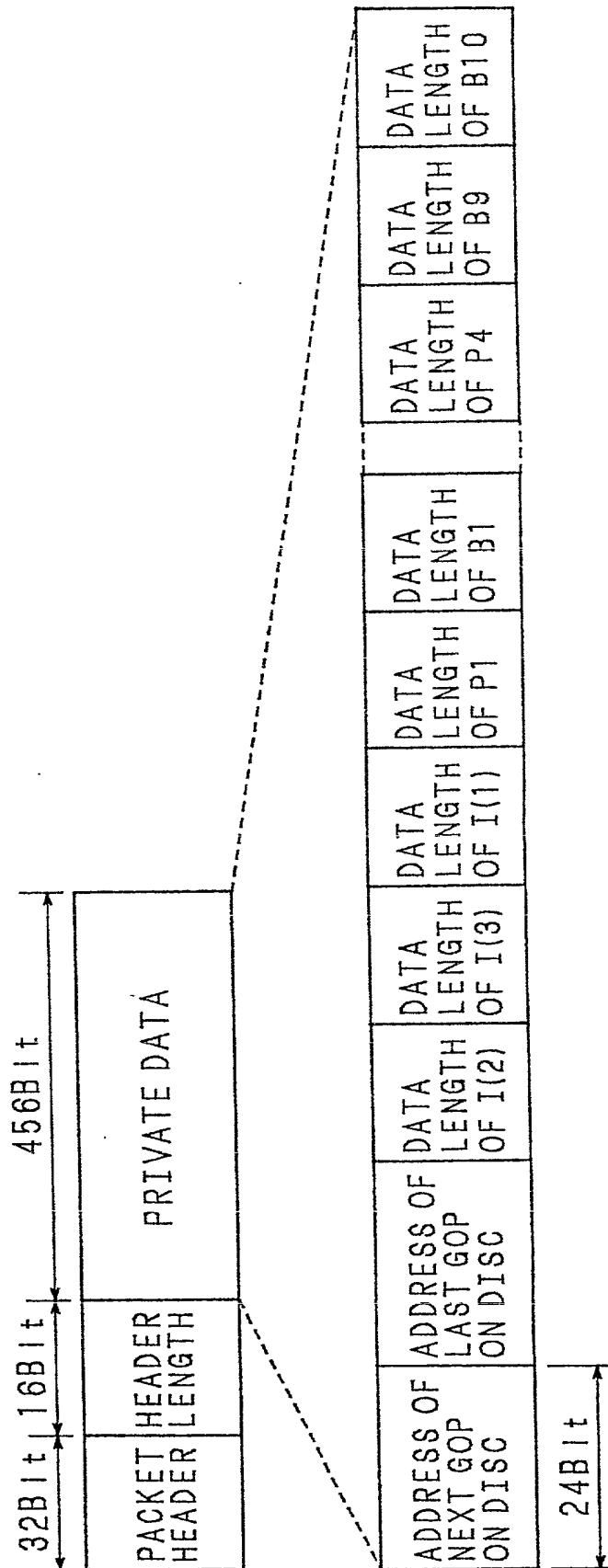


FIG. 52

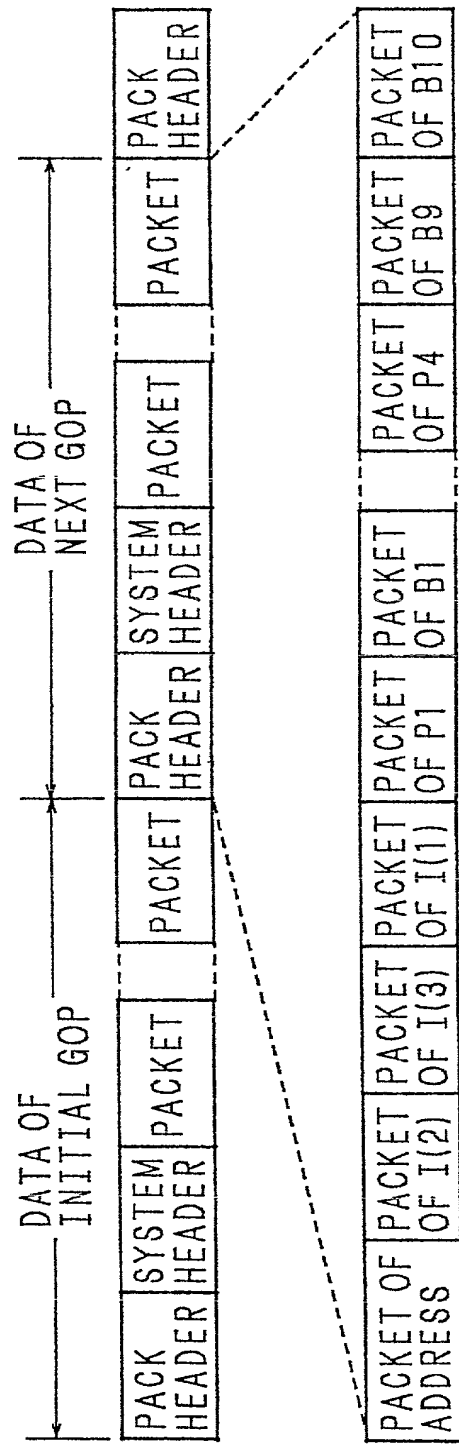


FIG. 53A

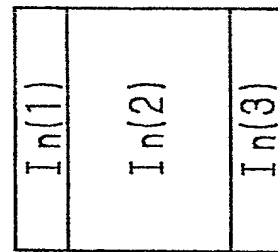


FIG. 53B

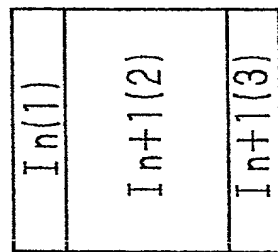


FIG. 53C

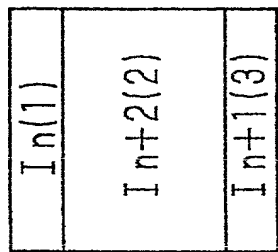


FIG. 53D

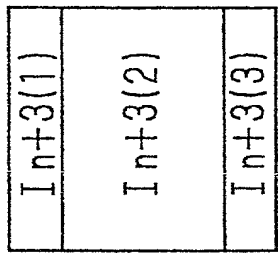


FIG. 53E

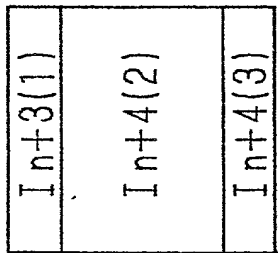


FIG. 54A

FIG. 54B

FIG. 54C

FIG. 54D

FIG. 54E

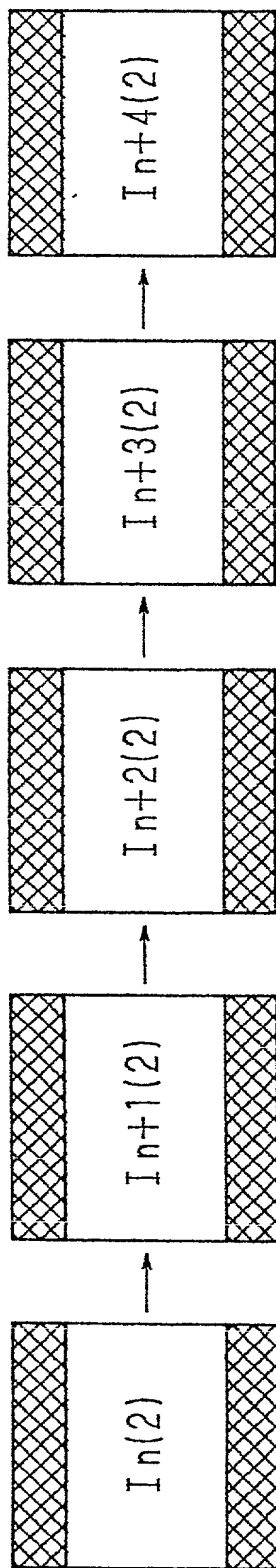
 : MASK DATA

FIG. 55A

FIG. 55B

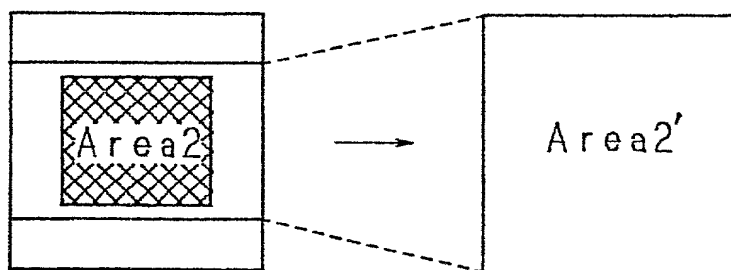
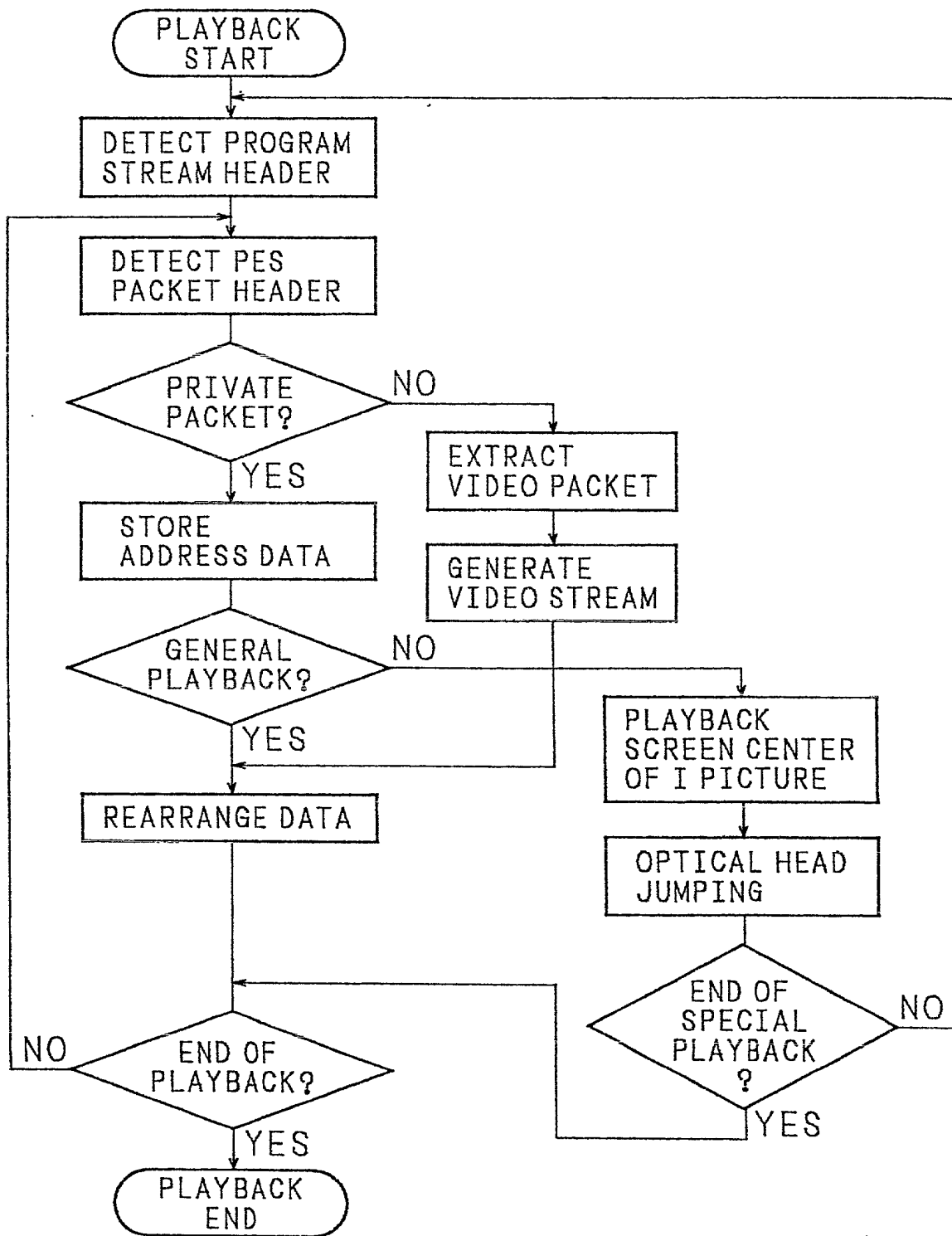


FIG. 56



20250709 09:03:00

FIG. 57

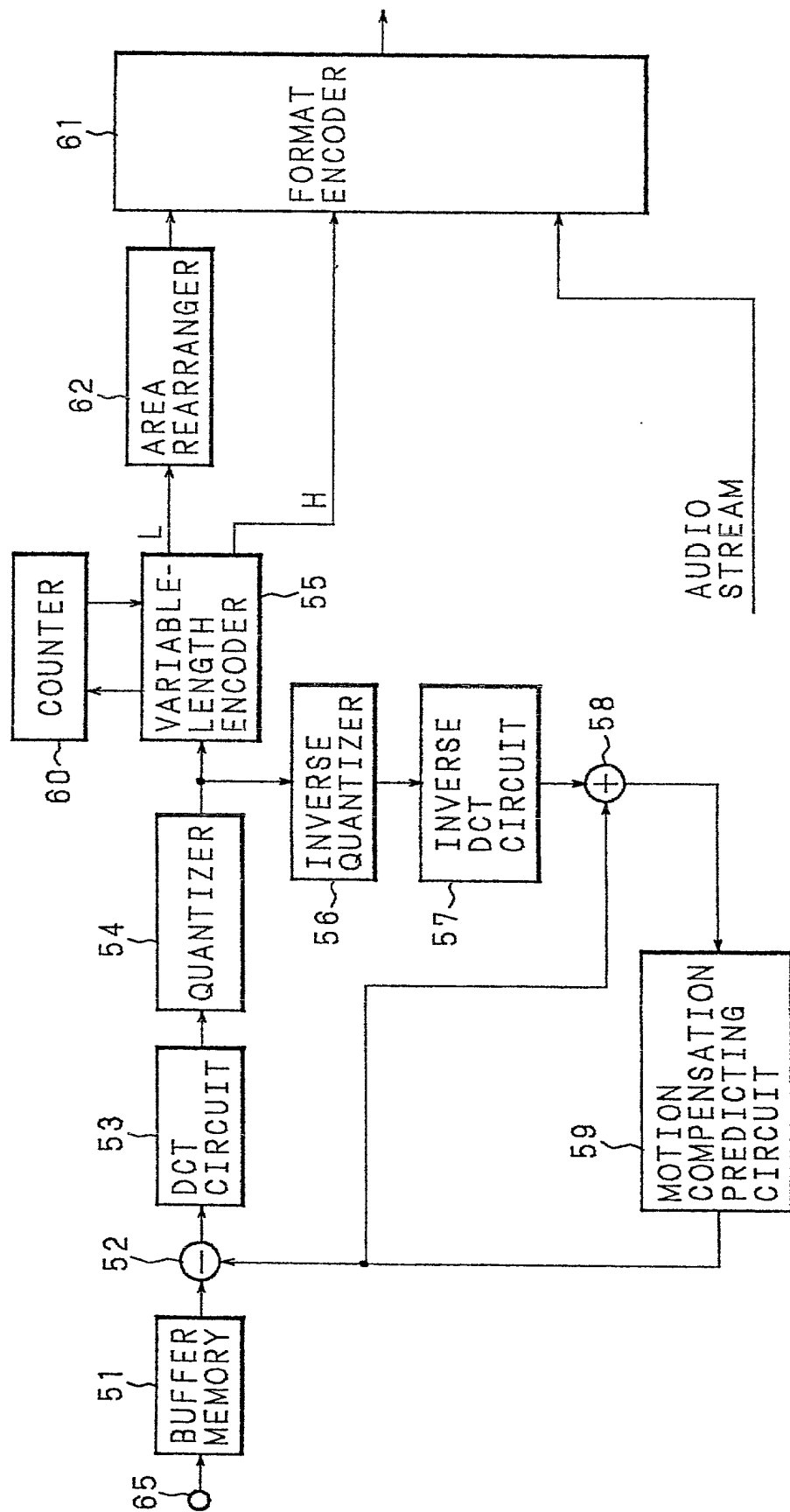
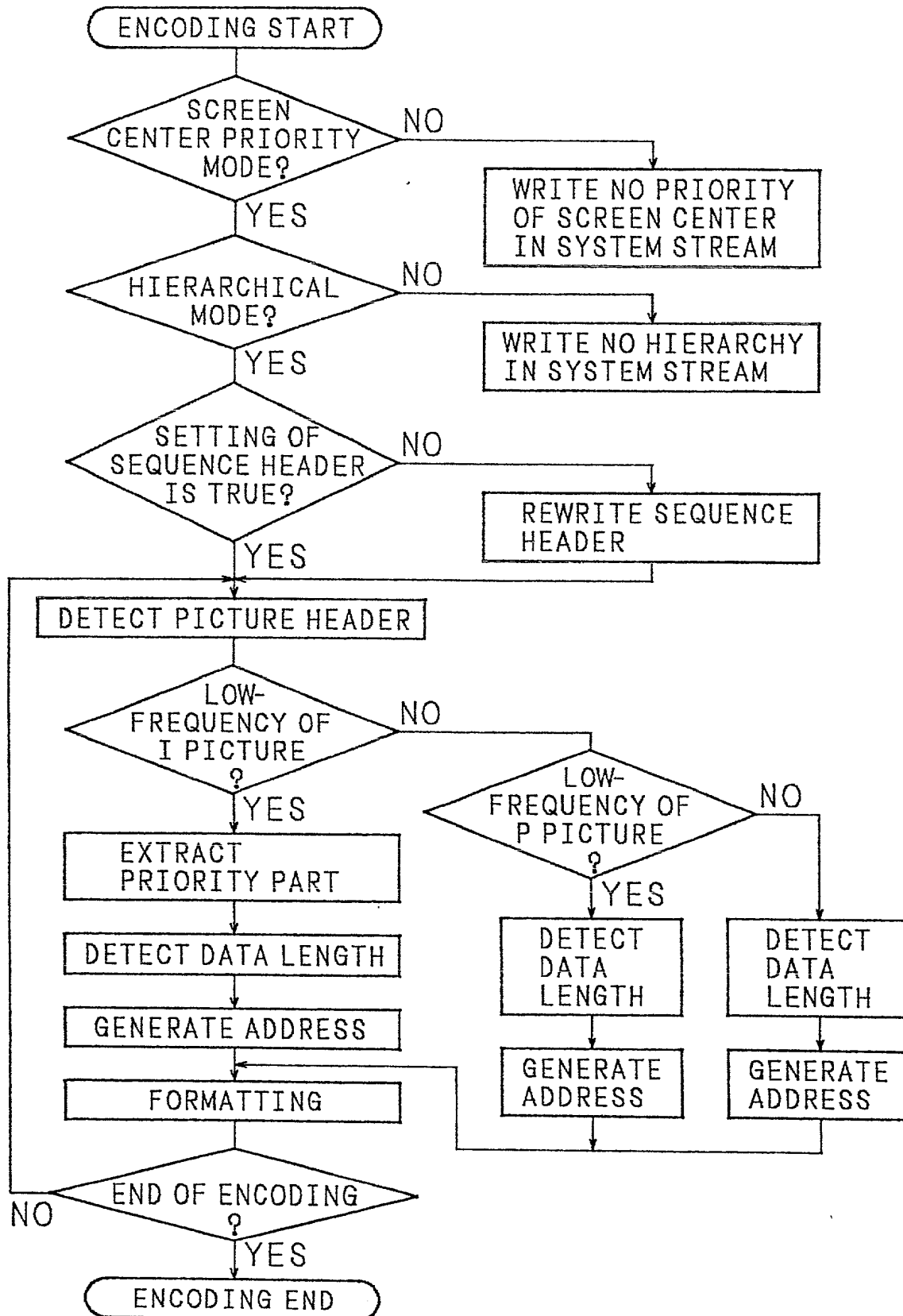


FIG. 58



10083267.000700

FIG. 59A
BITSTREAM IN
NO HIERARCHY

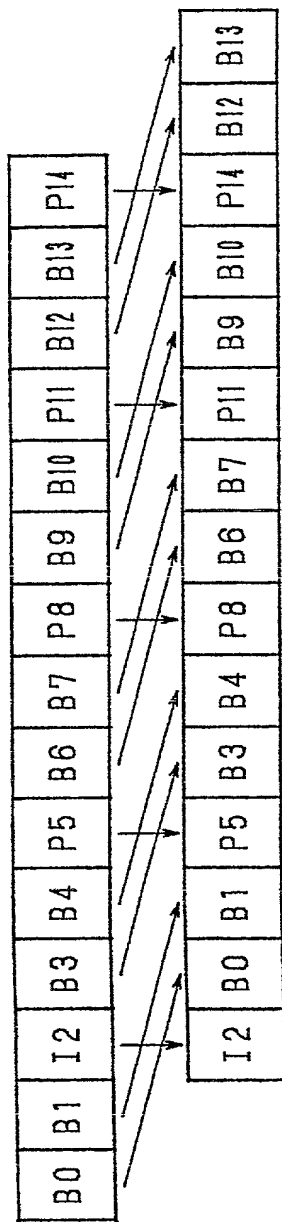


FIG. 59B
BITSTREAM IN
HIERARCHY

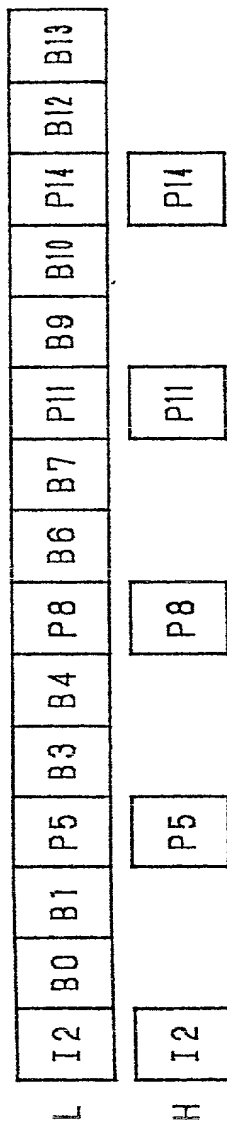


FIG. 59C
REARRANGED BITSTREAM
IN CONSIDERATION OF
SPECIAL PLAYBACK

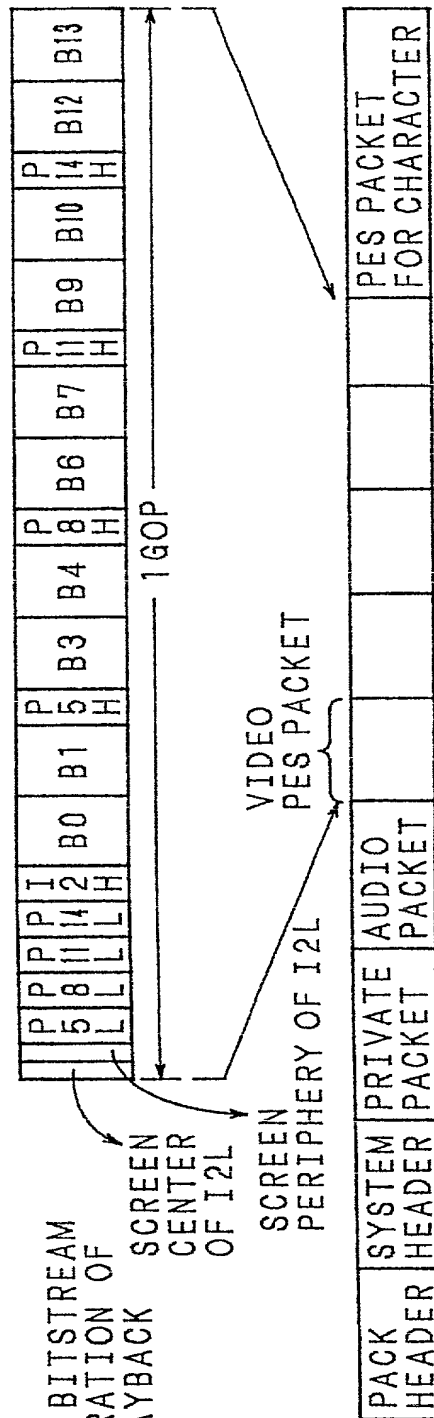


FIG. 59D
PROGRAM
STREAM
FOR DISC
RECORDING

FIG. 61

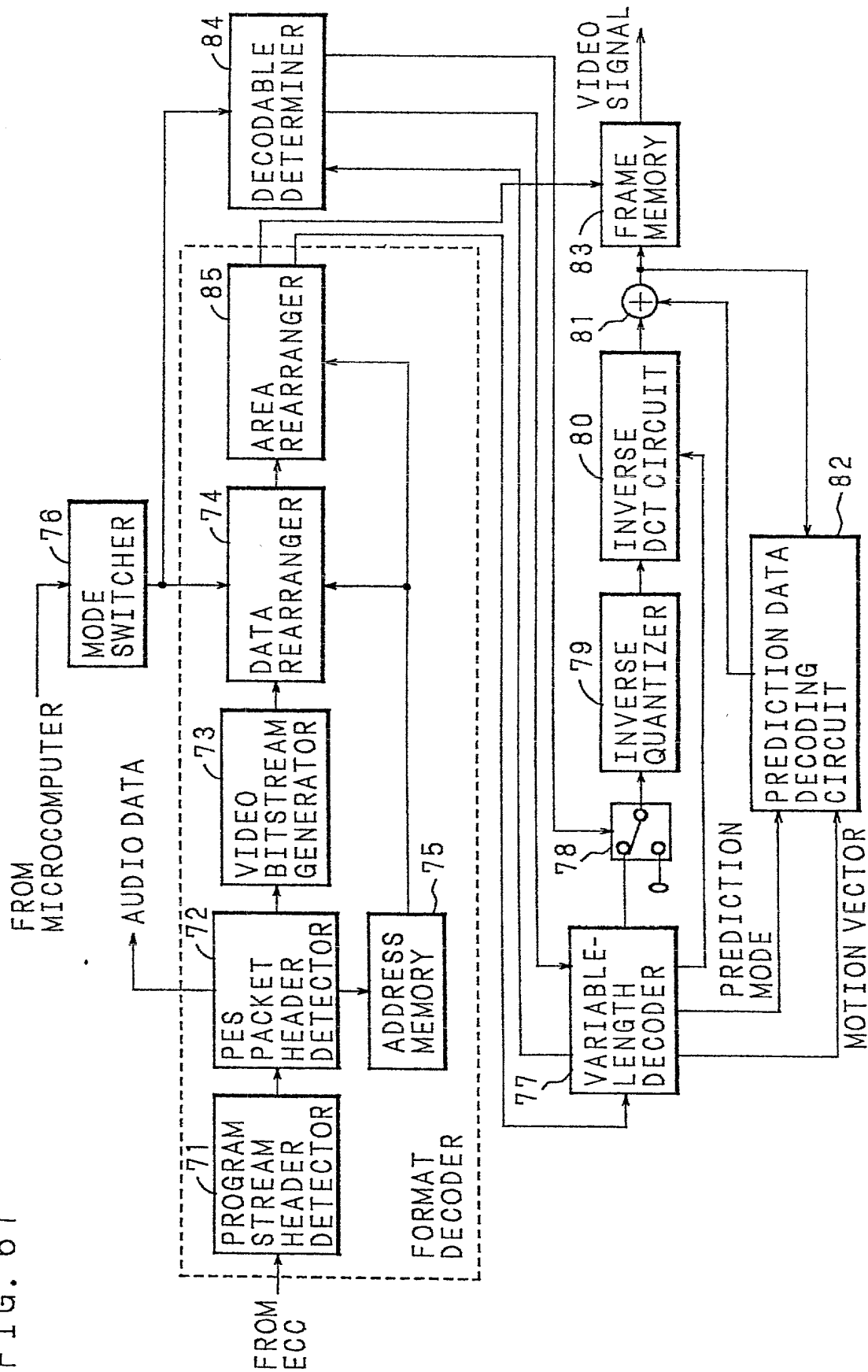
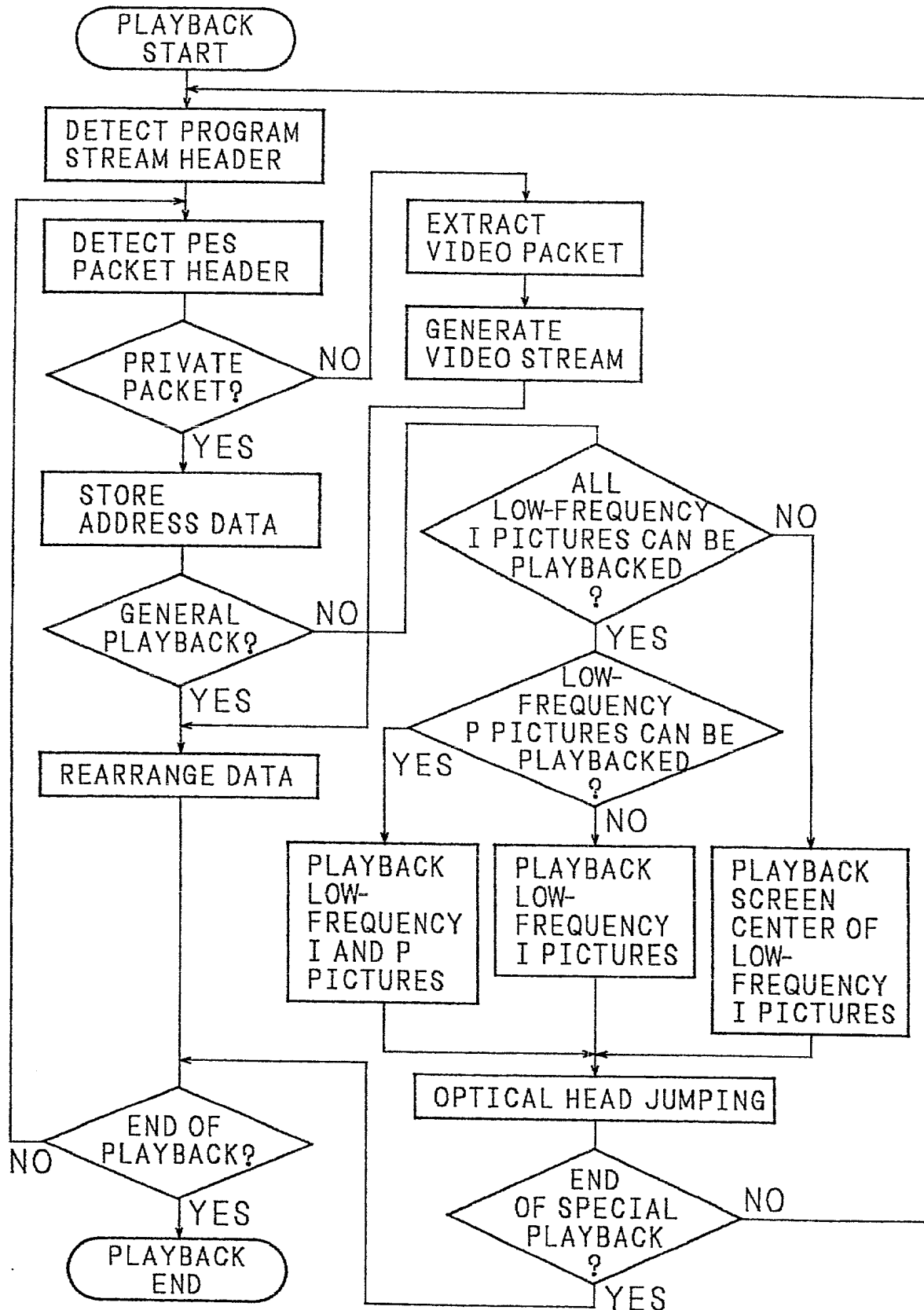


FIG. 62



10083267-000703

FIG. 63

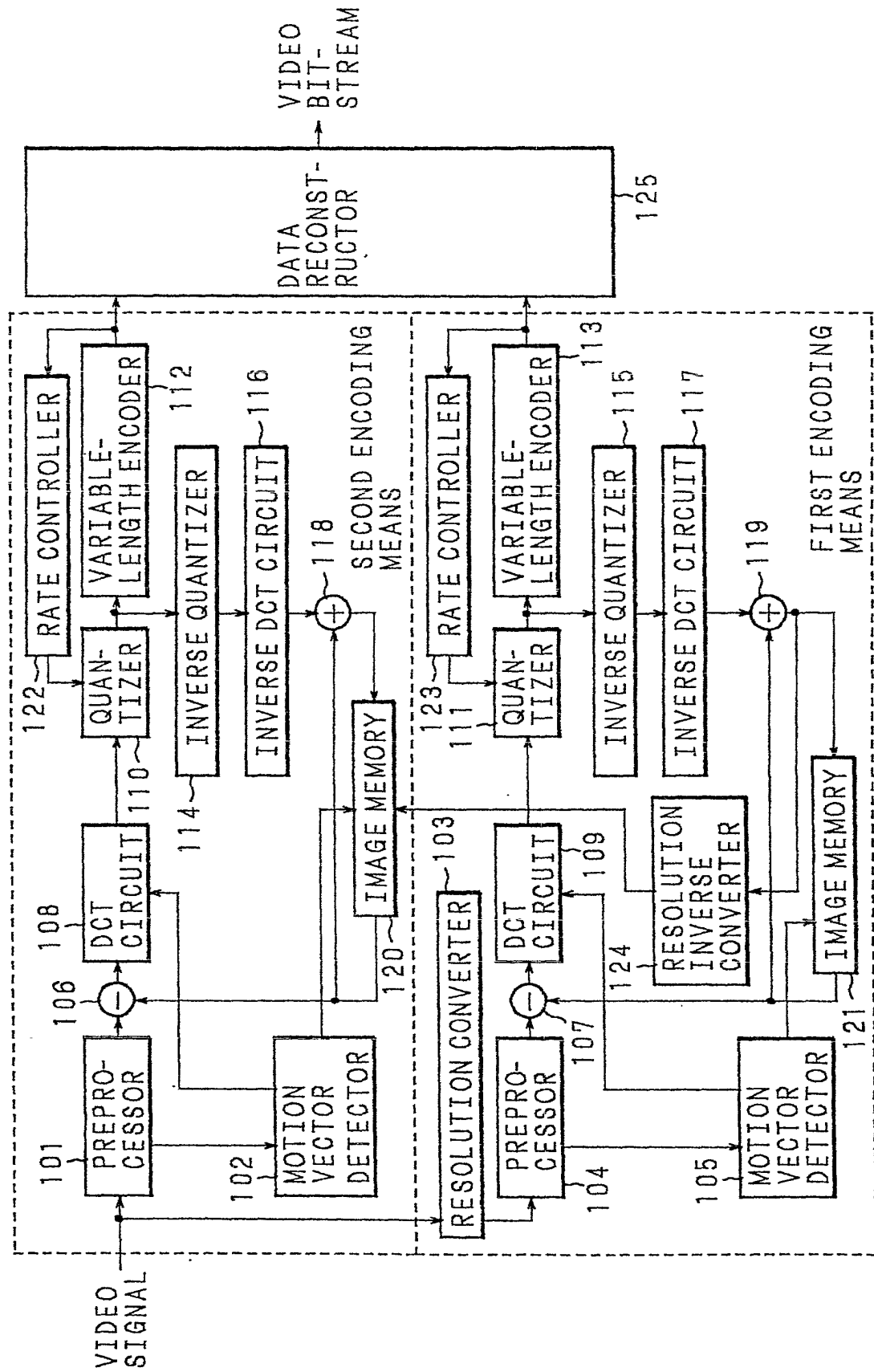
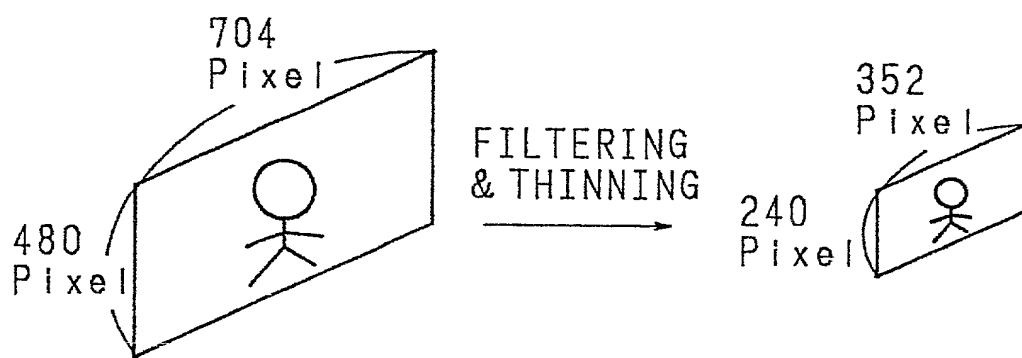


FIG. 64



LEG.

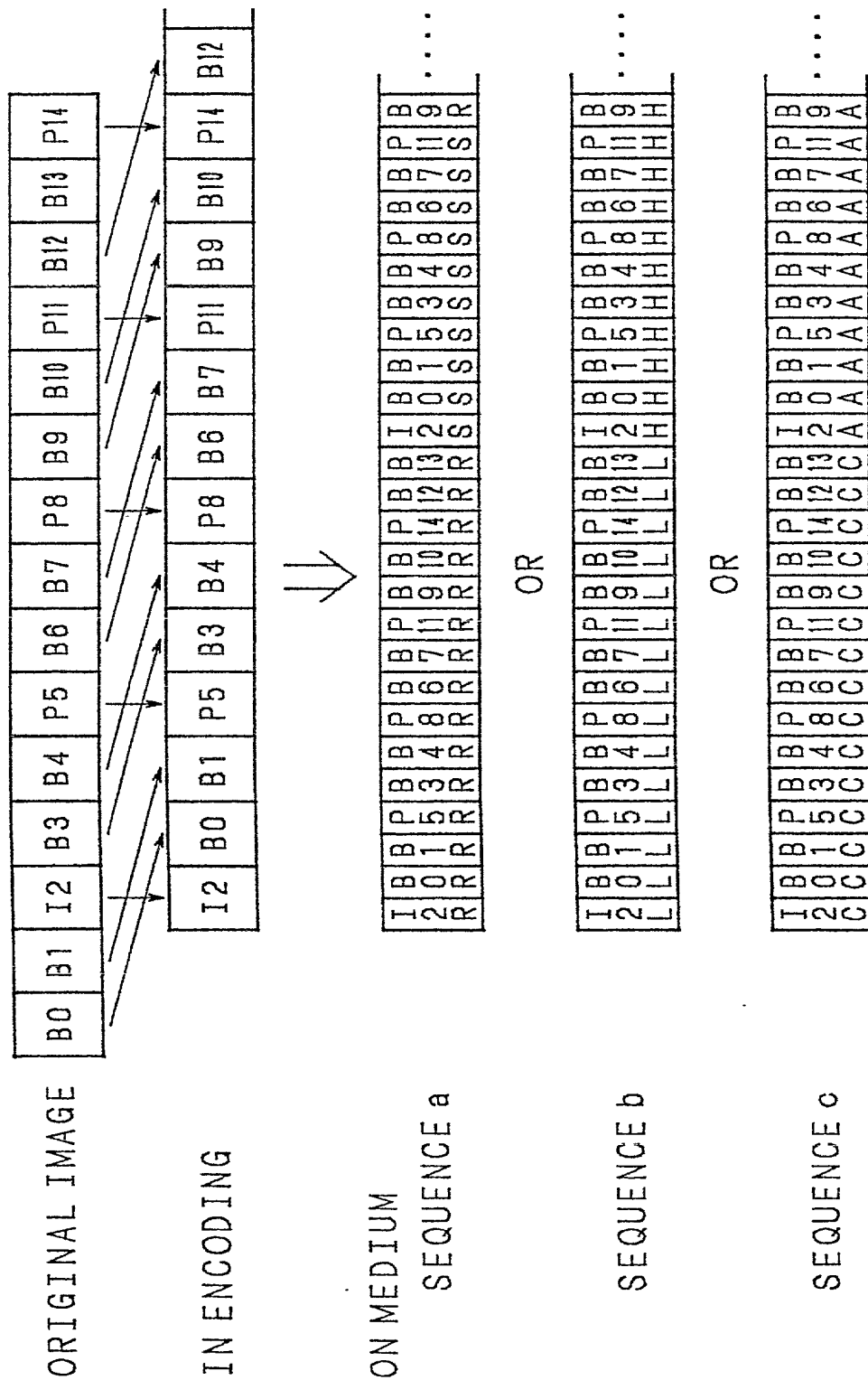


FIG. 66

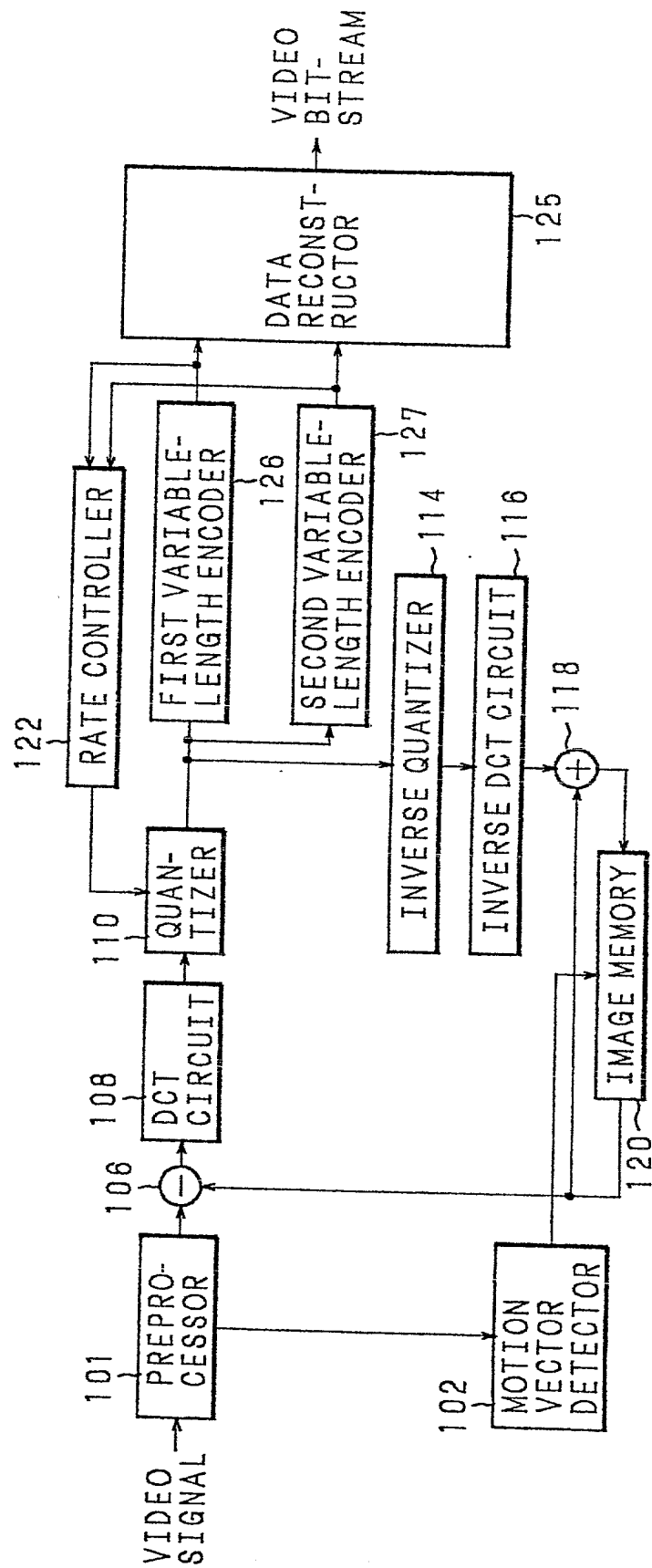
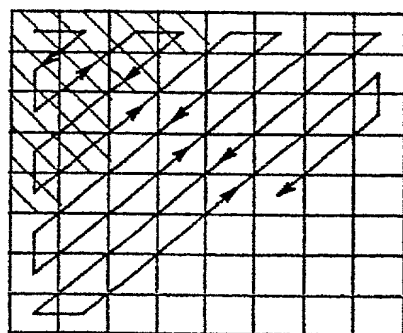


FIG. 67



20250729 09:00:00

FIG. 68

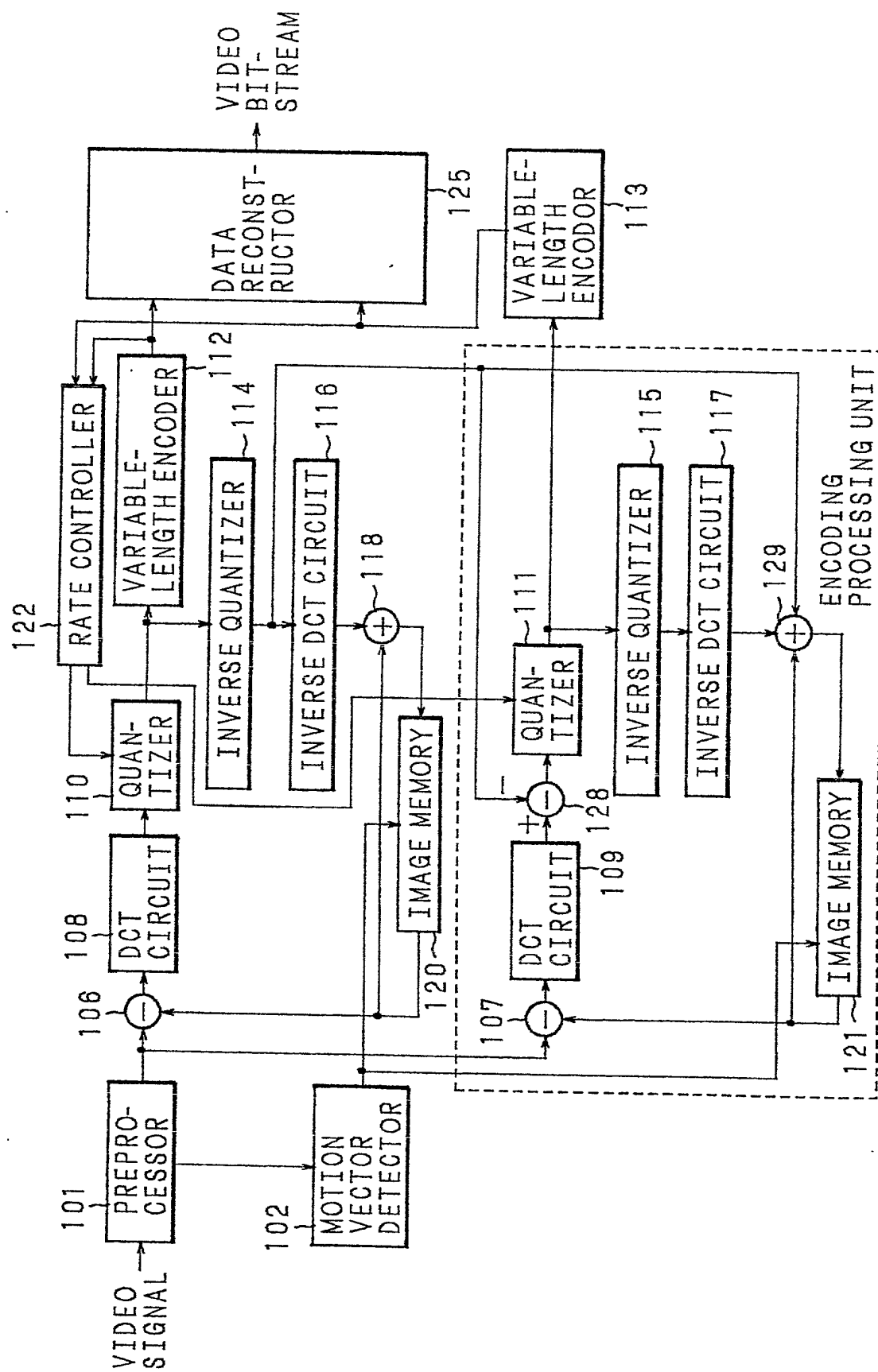
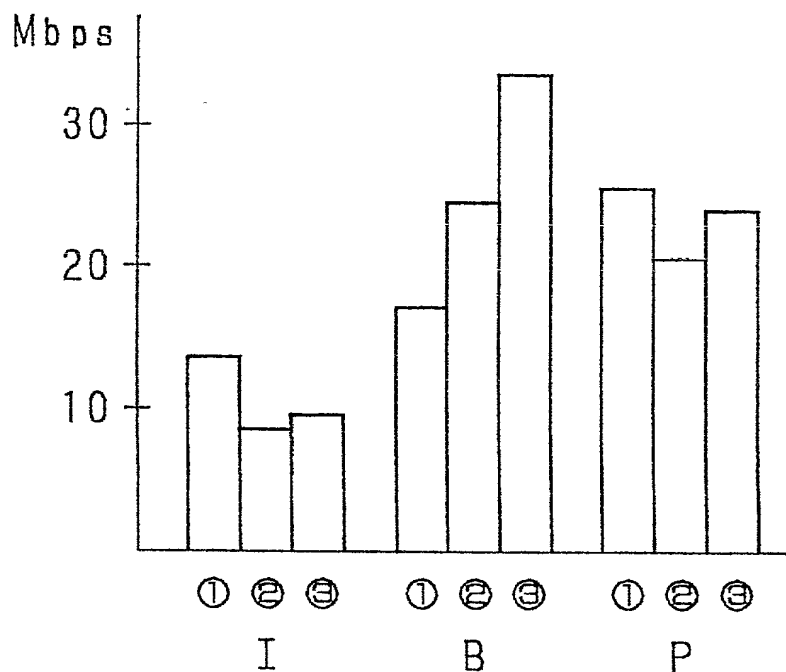


FIG. 69

N=15 (NUMBER OF PICTURES IN GOP)
M=3 (CYCLE OF I,P PICTURE)
AVERAGE RATE 4Mbps
RATE IN
PICTURES
COLLECTION



AVERAGE AVERAGE AVERAGE
9.4 Mbps 24.5 Mbps 22.6 Mbps

①: SCENE①
②: SCENE②
③: SCENE③

FIG. 70

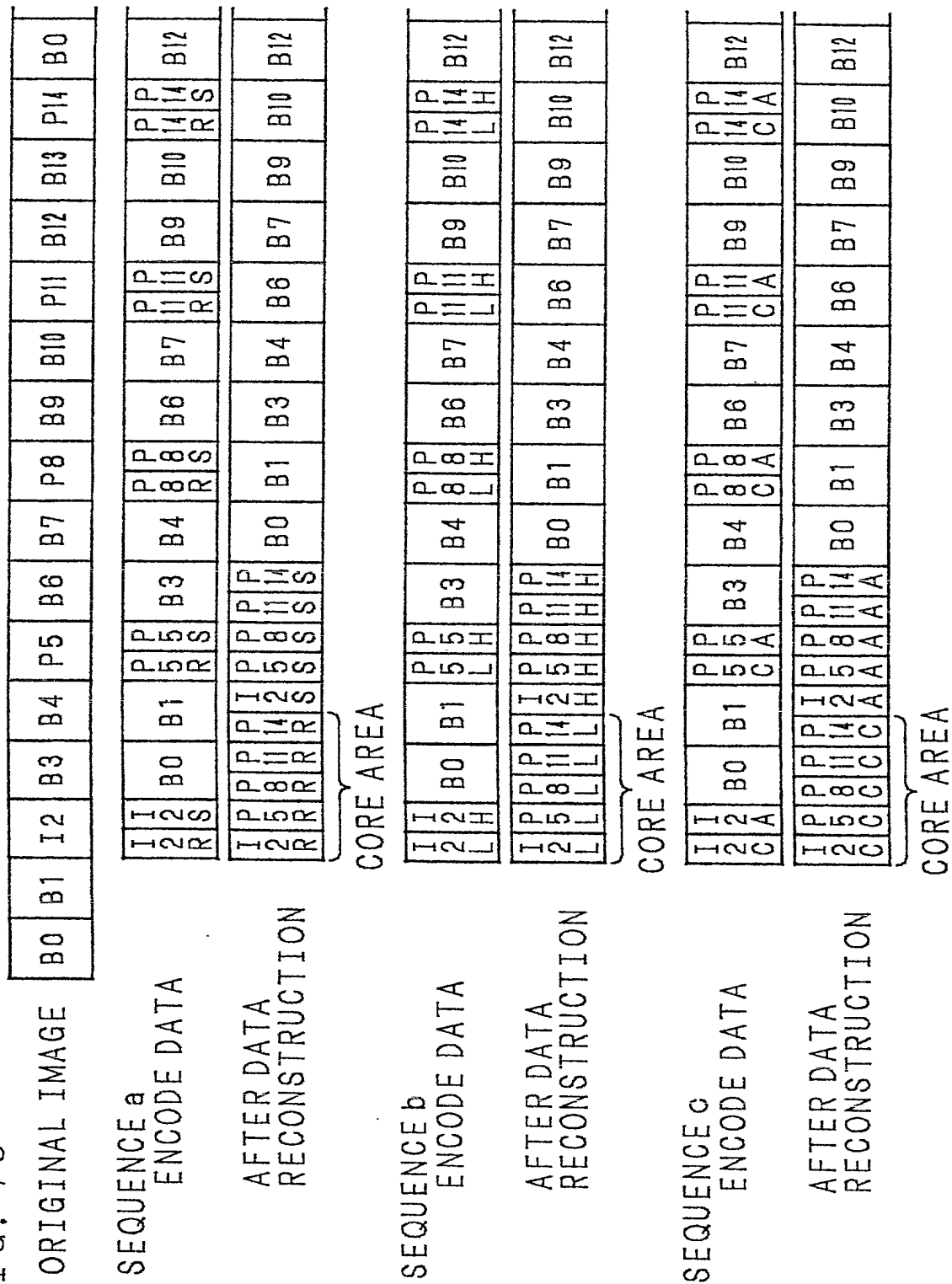


FIG. 71 A

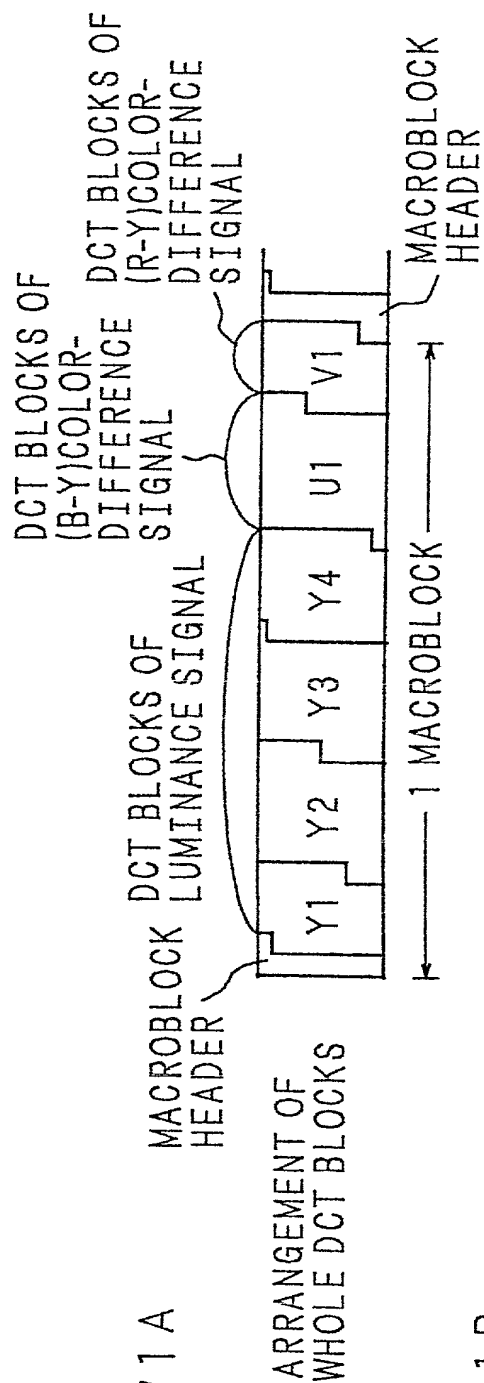


FIG. 71 B

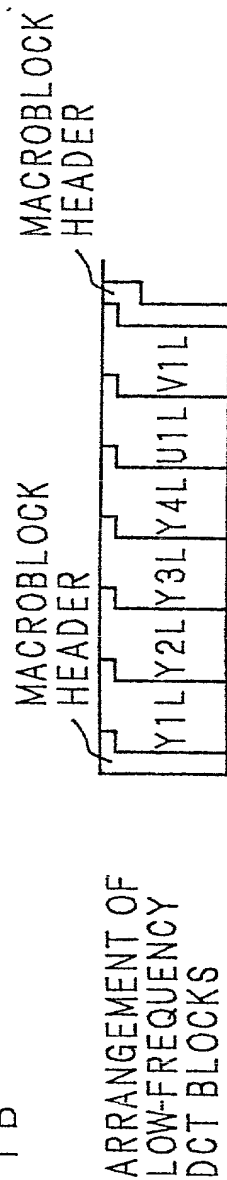


FIG. 71 C

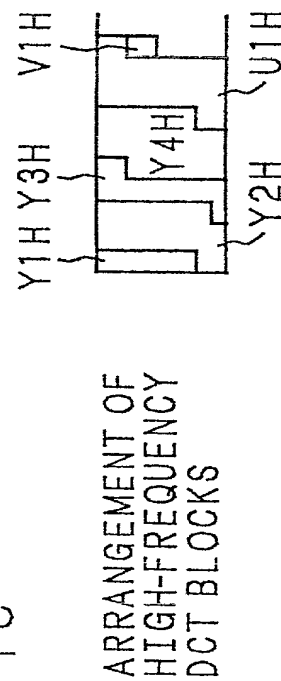


FIG. 71D

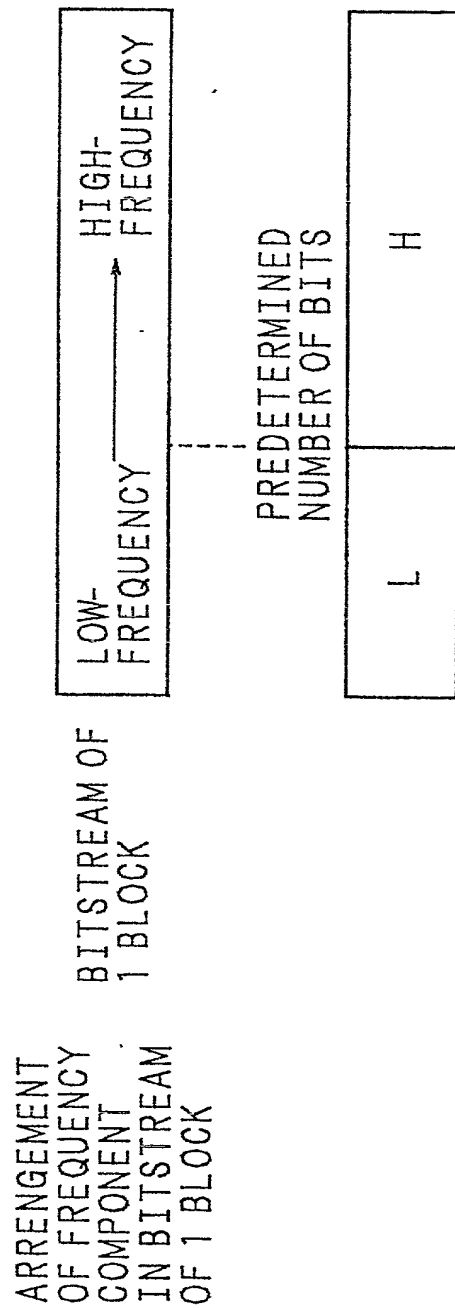


FIG. 72A

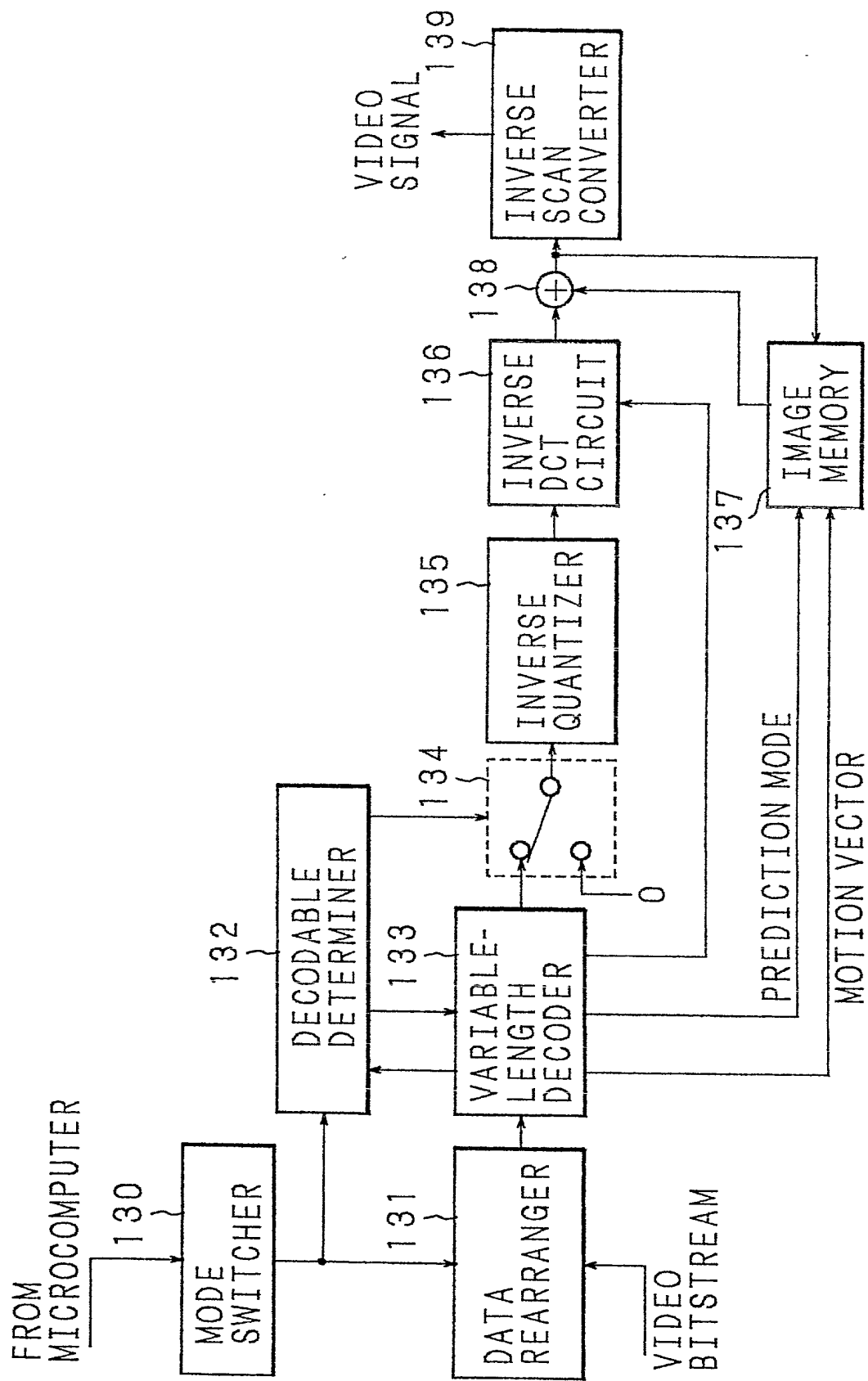
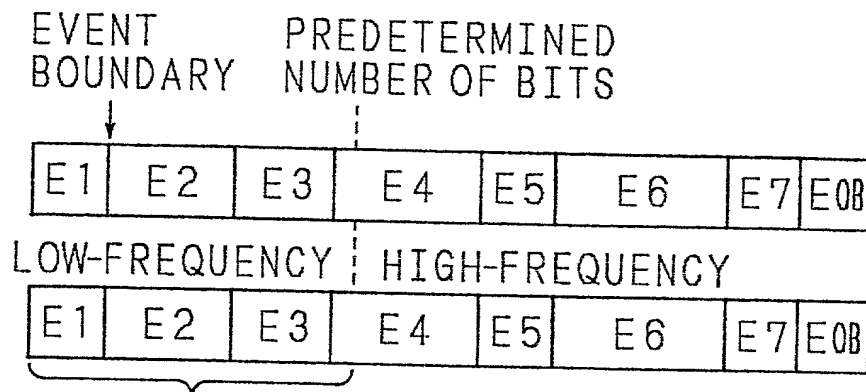


FIG. 72B



IN MODE WHERE THESE AREAS ARE DECODED, E4 DATA IS DISCARDED AND "0" IS INSERTED INTO HATCHED AREA

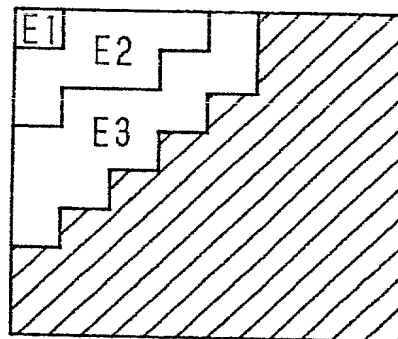


FIG. 73A

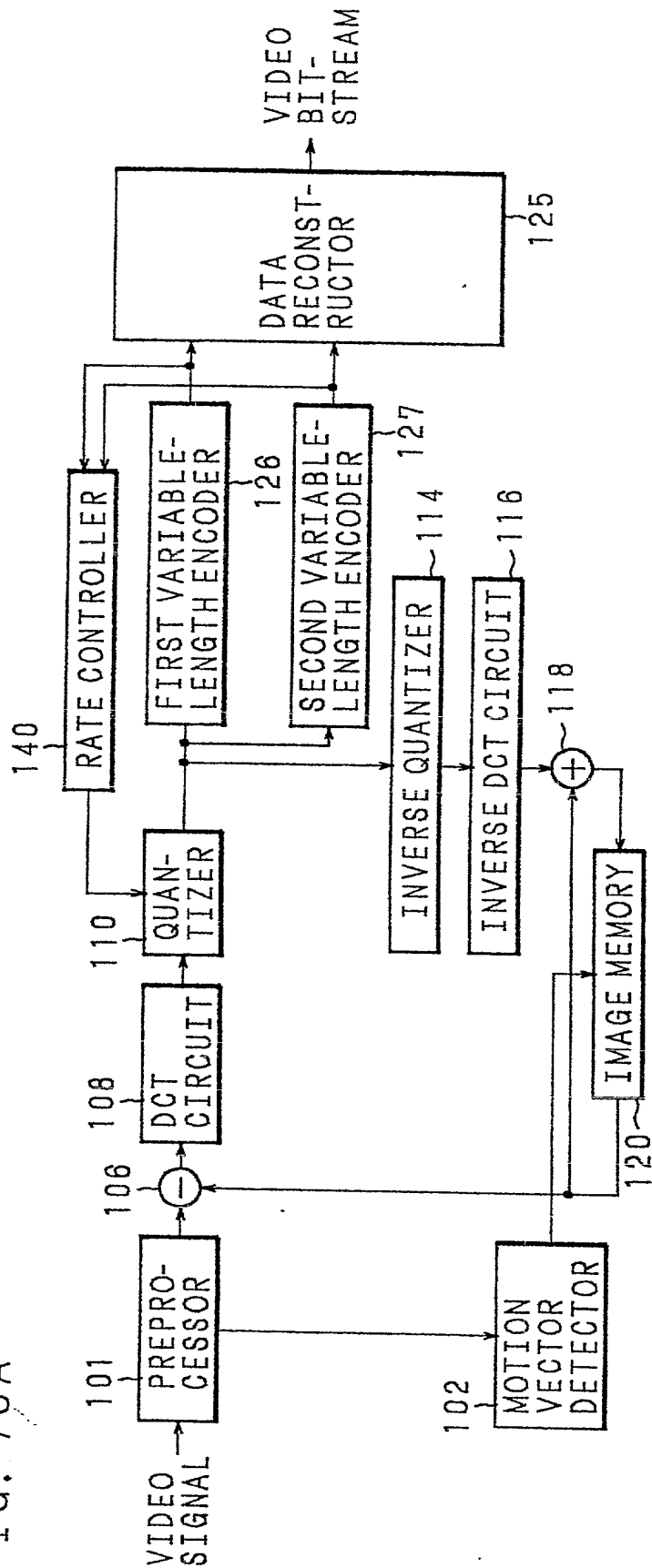


FIG. 73B

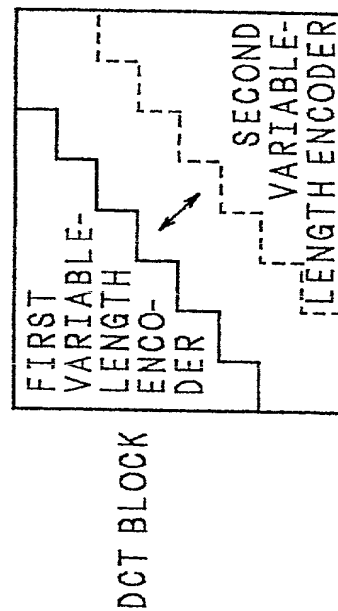


FIG. 74

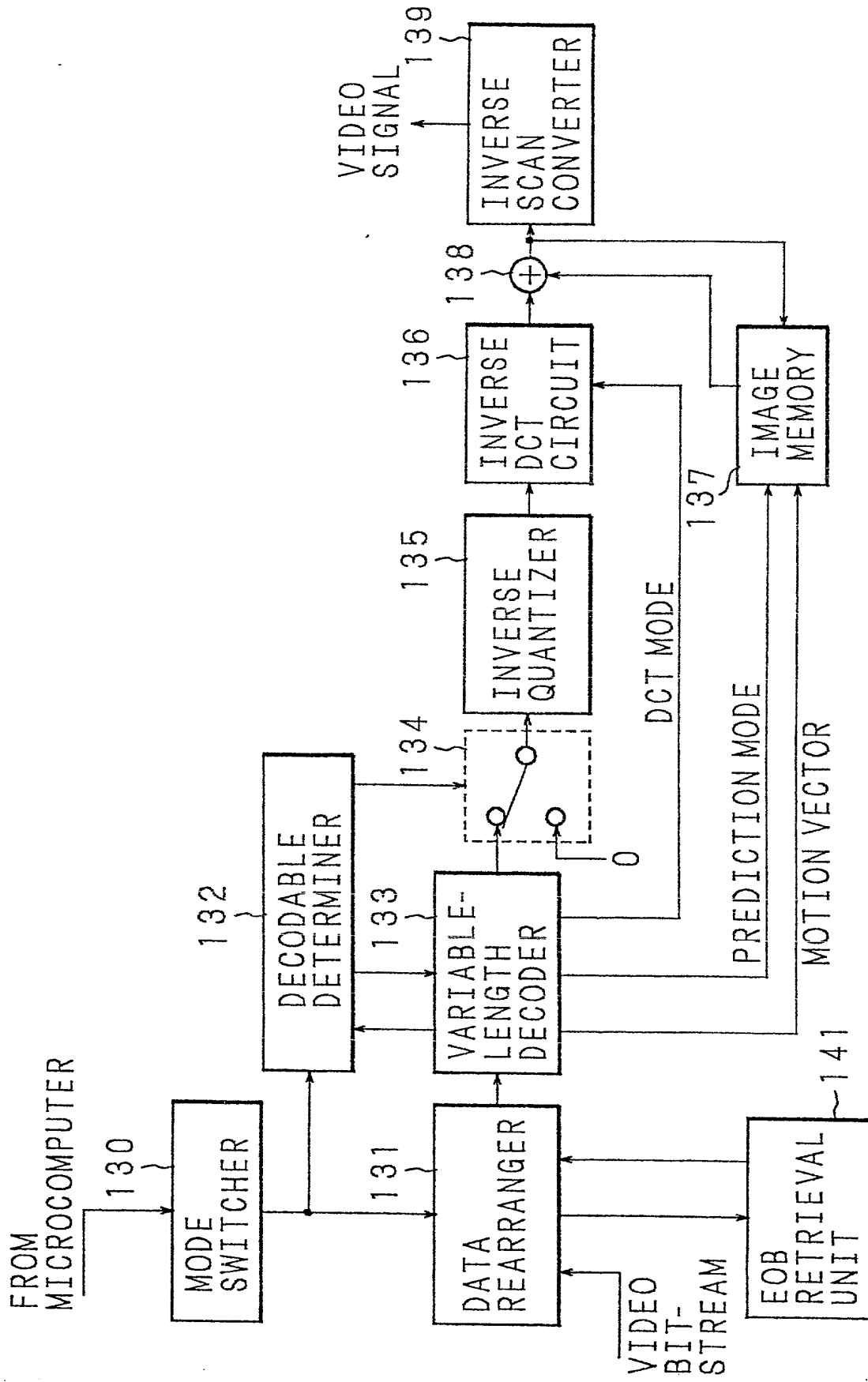


FIG. 75

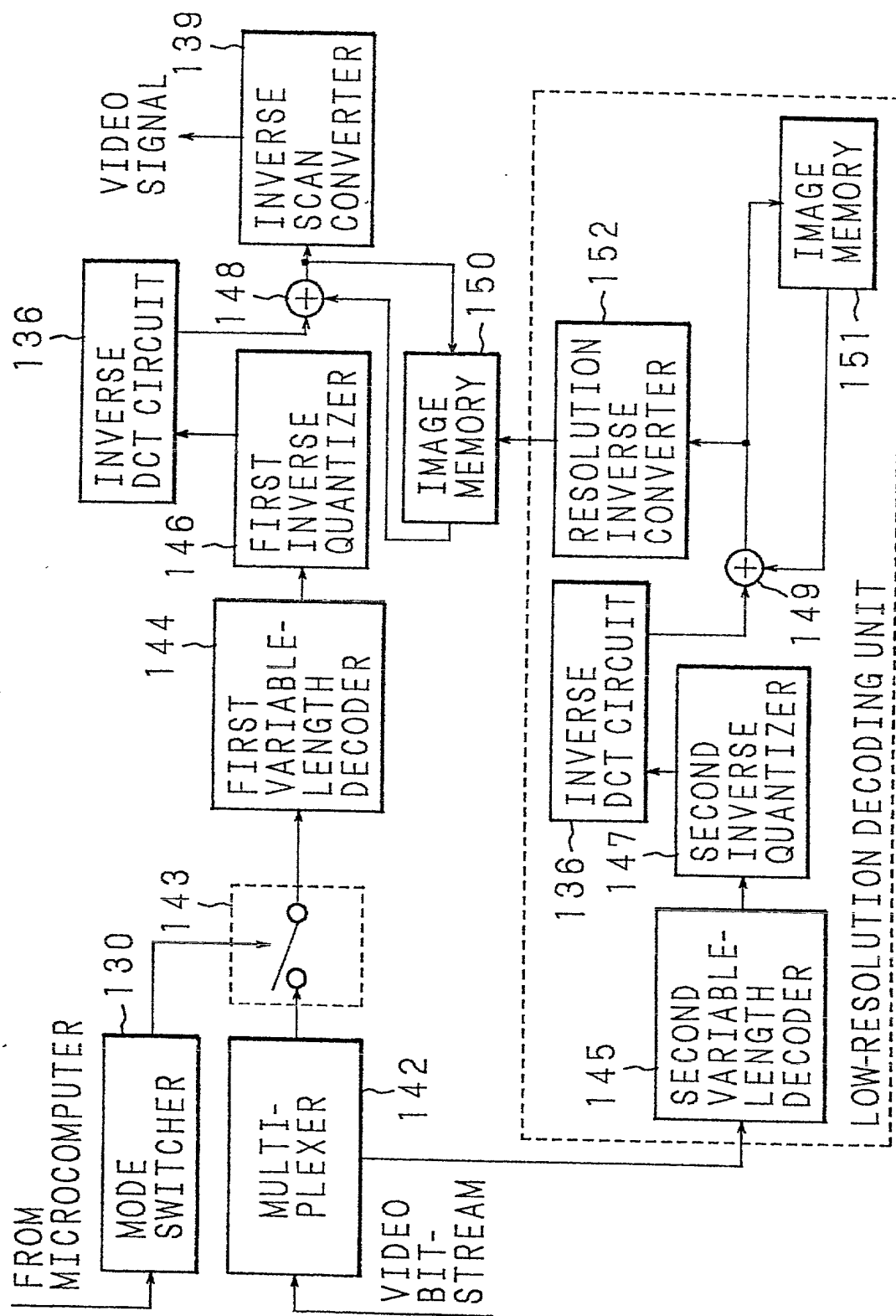


FIG. 76

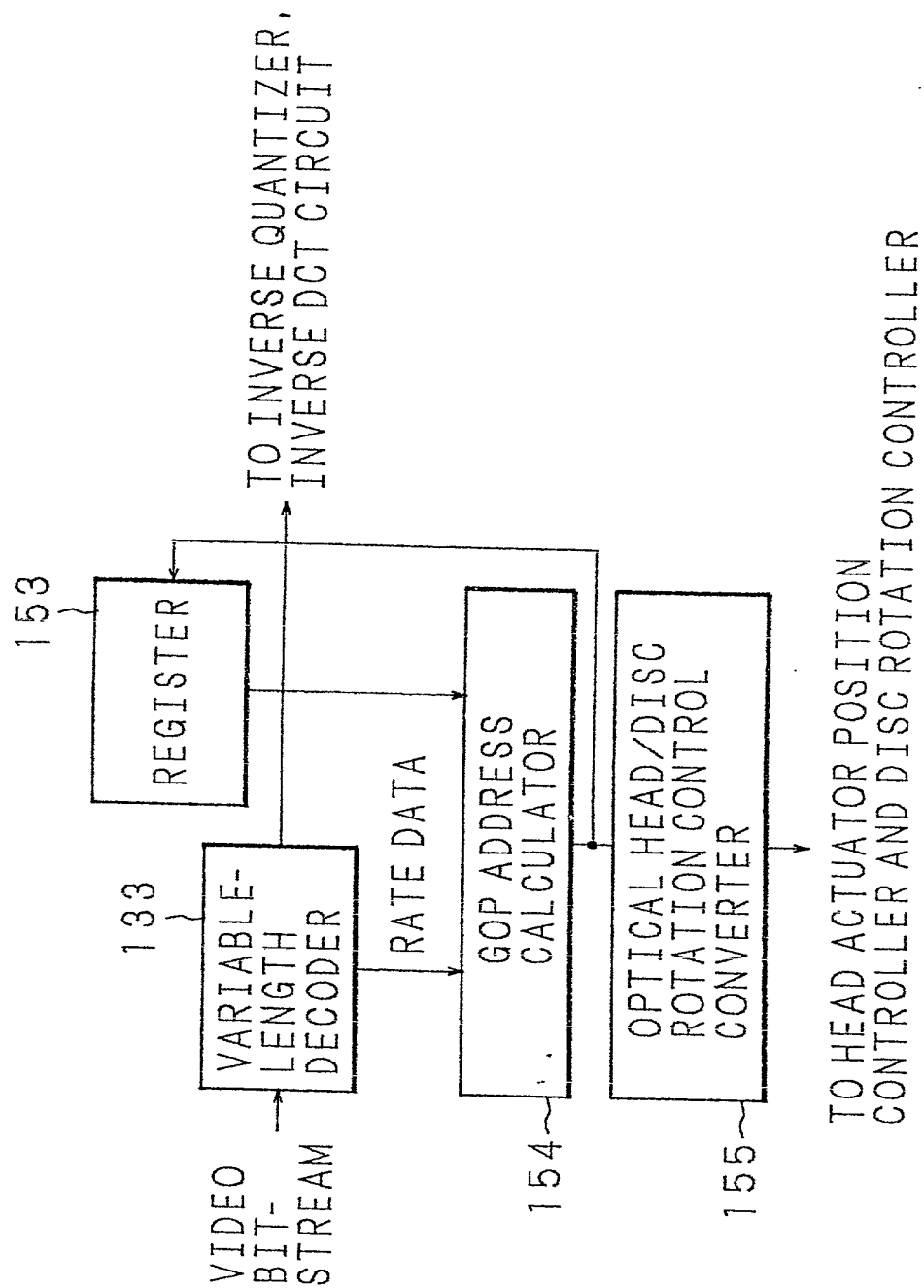


FIG. 77

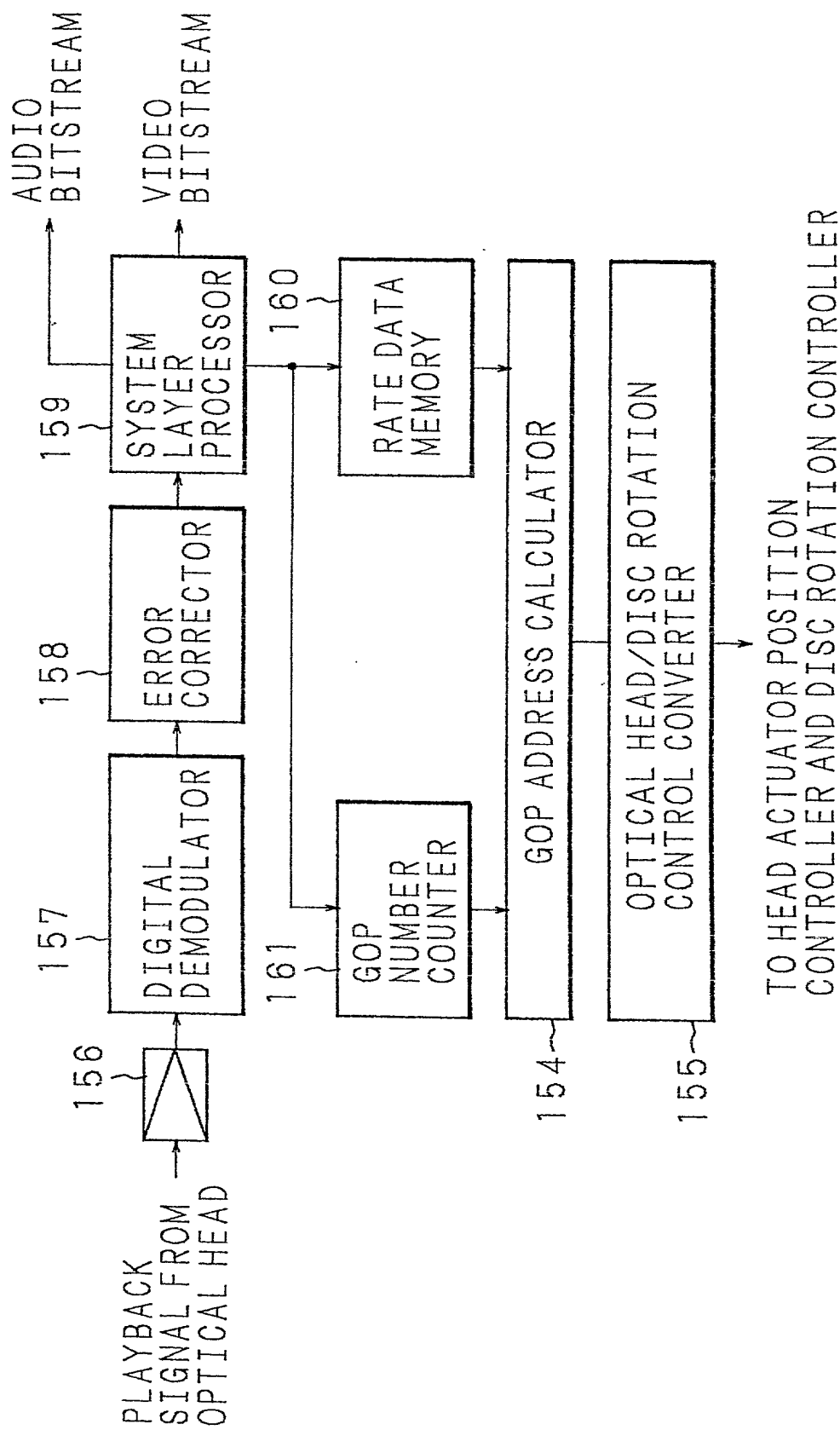


FIG. 78

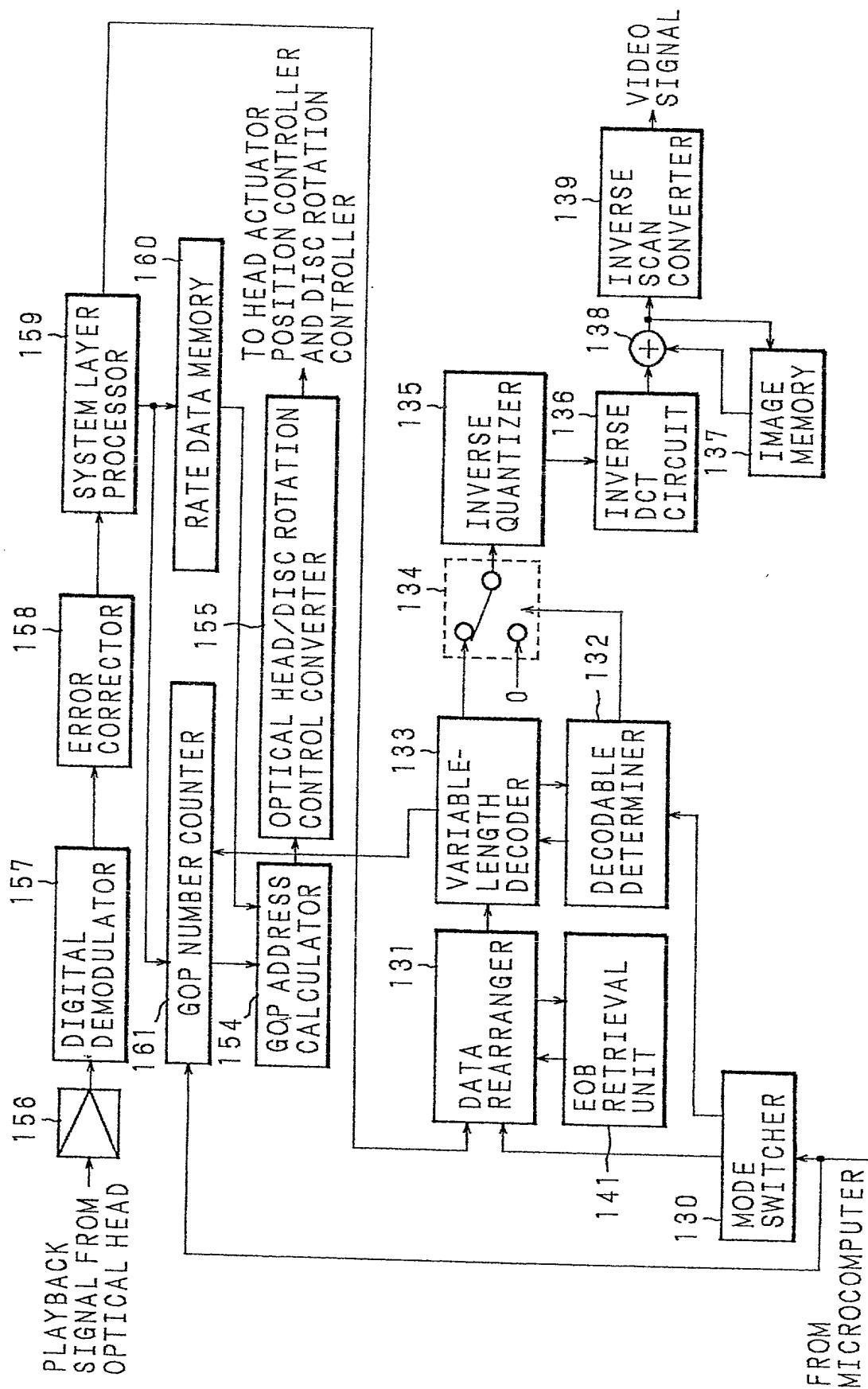


FIG. 79

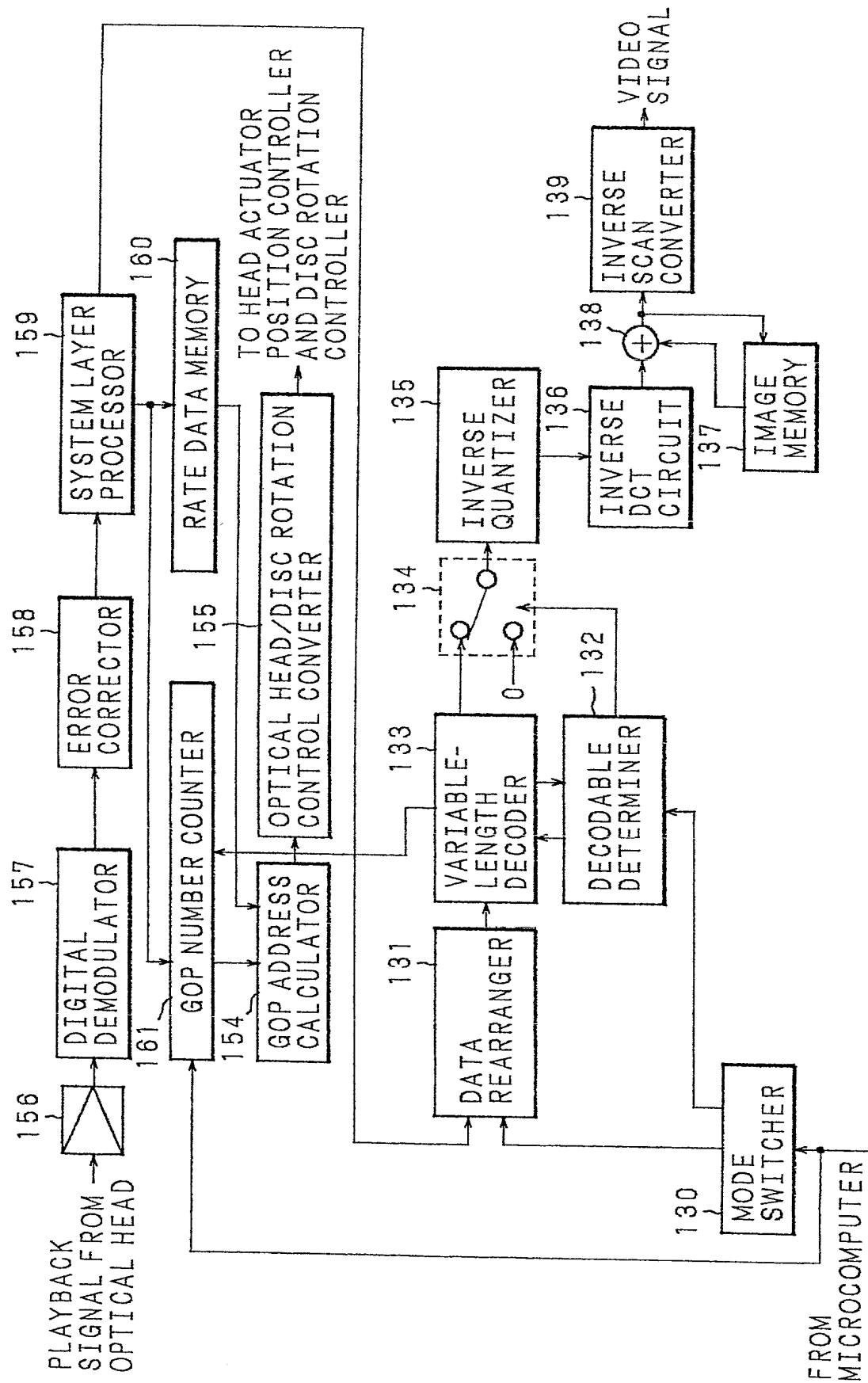


FIG. 80

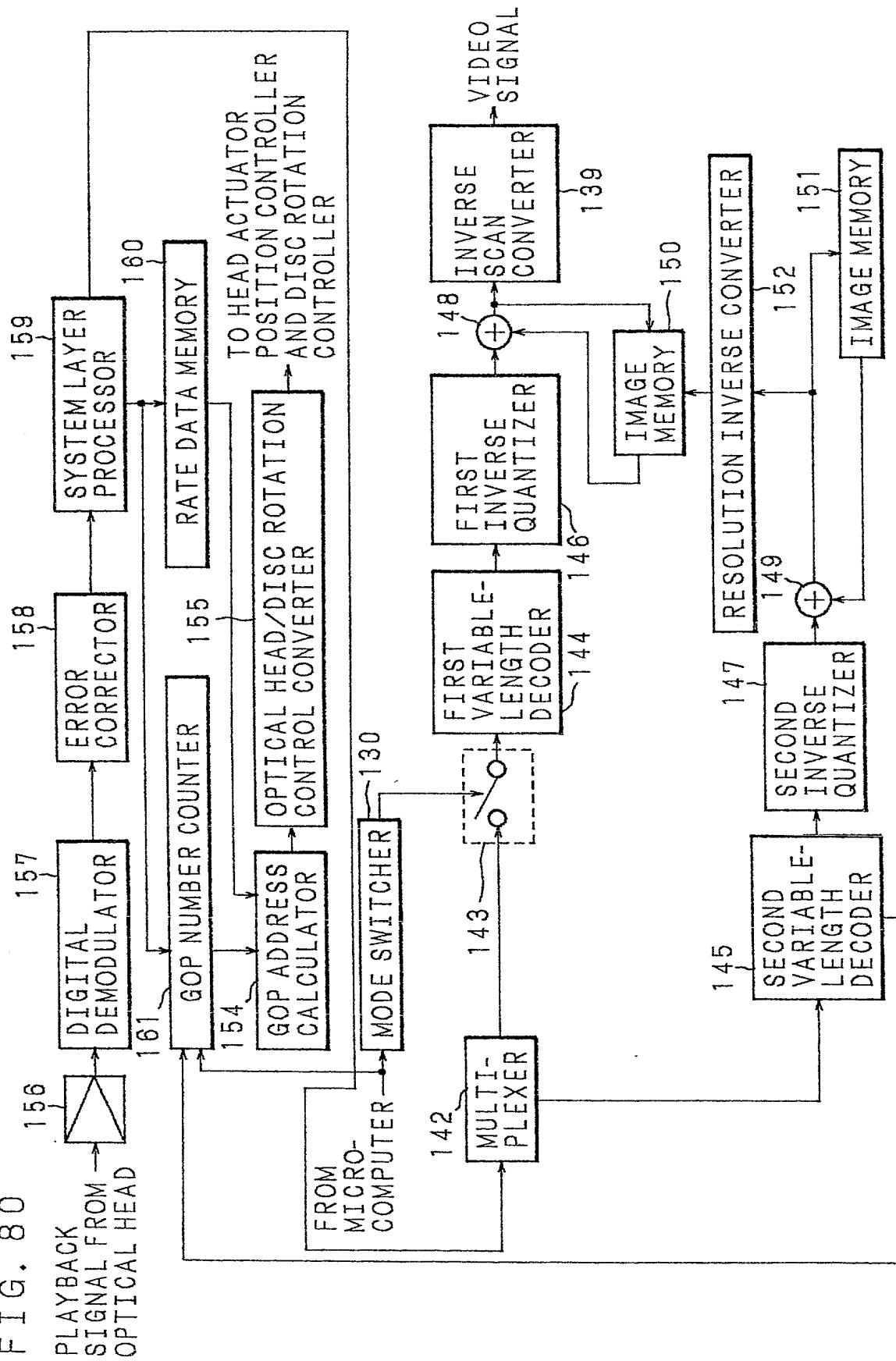


FIG. 81

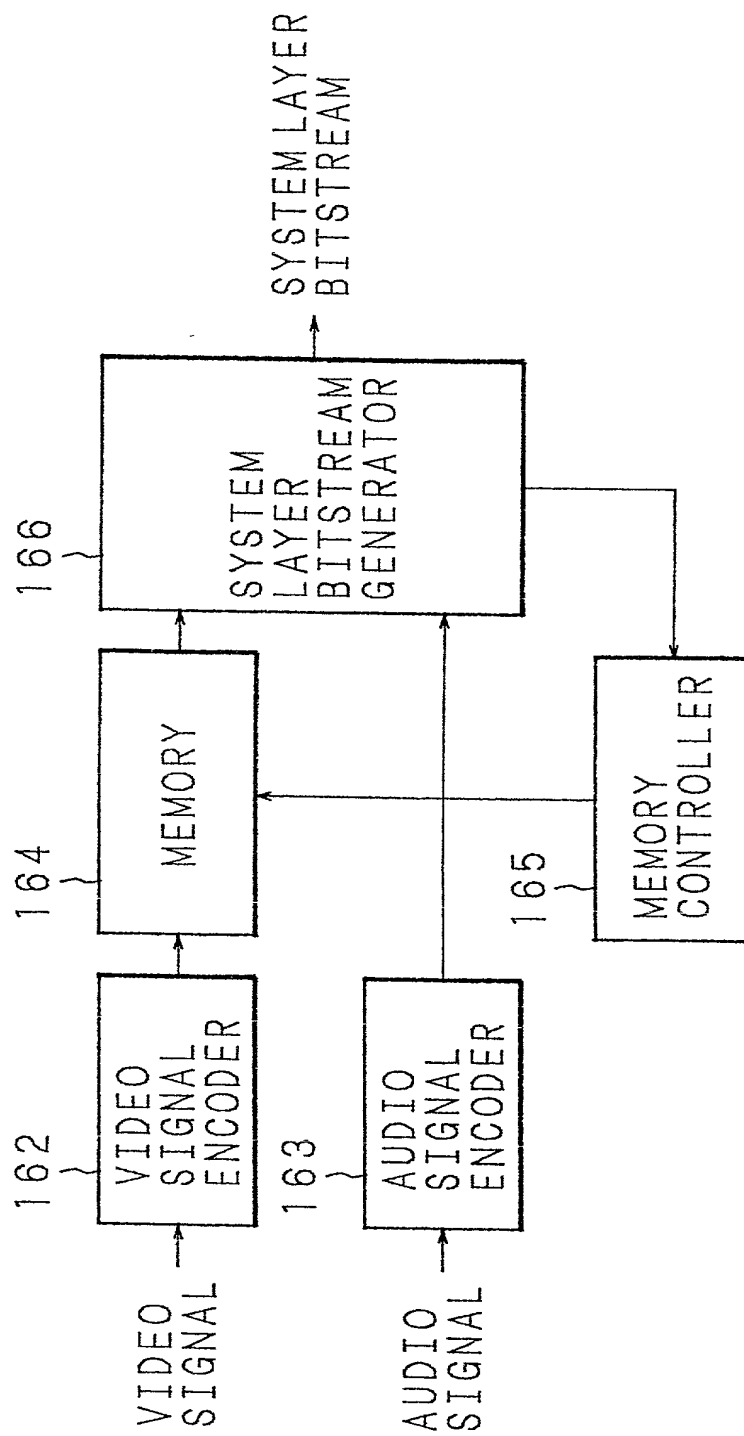


FIG. 82

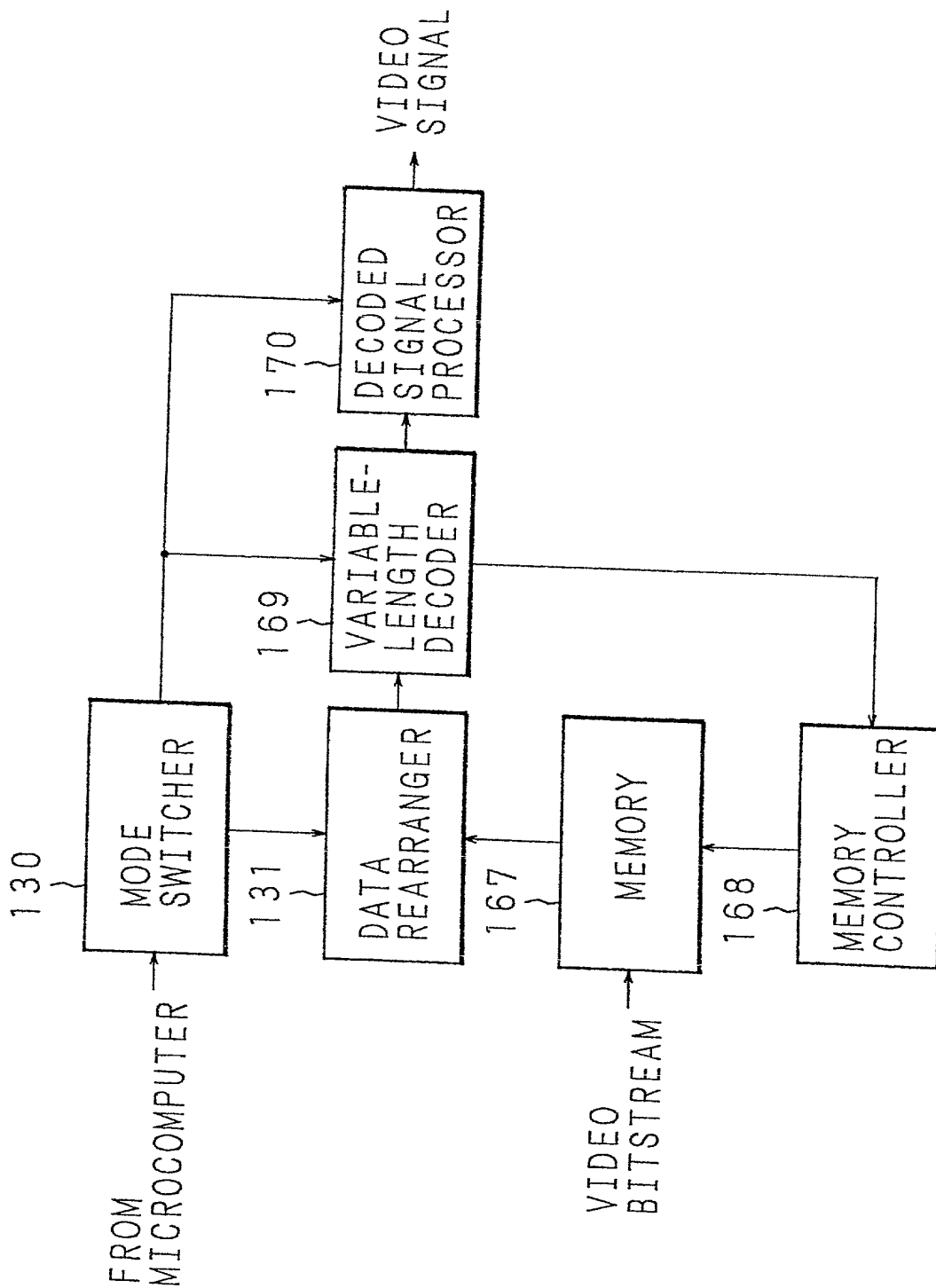


FIG. 83A

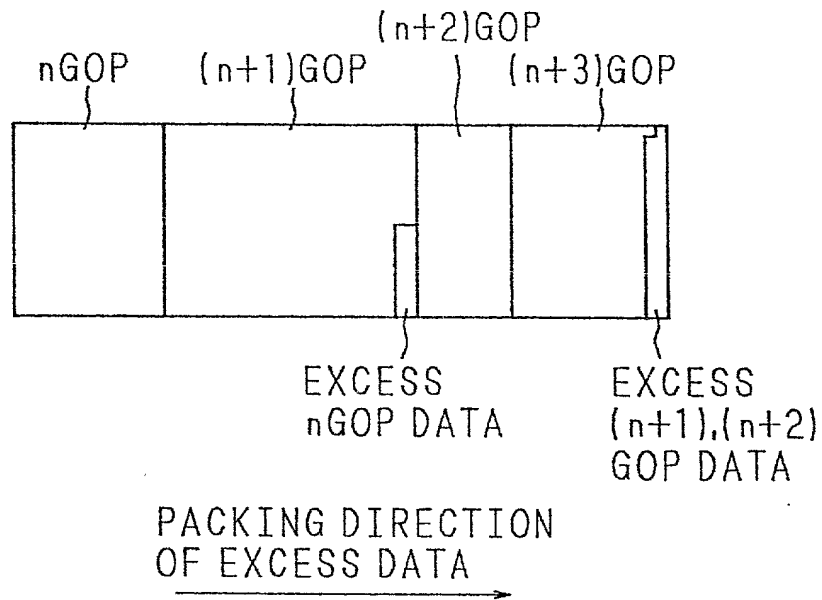


FIG. 83B

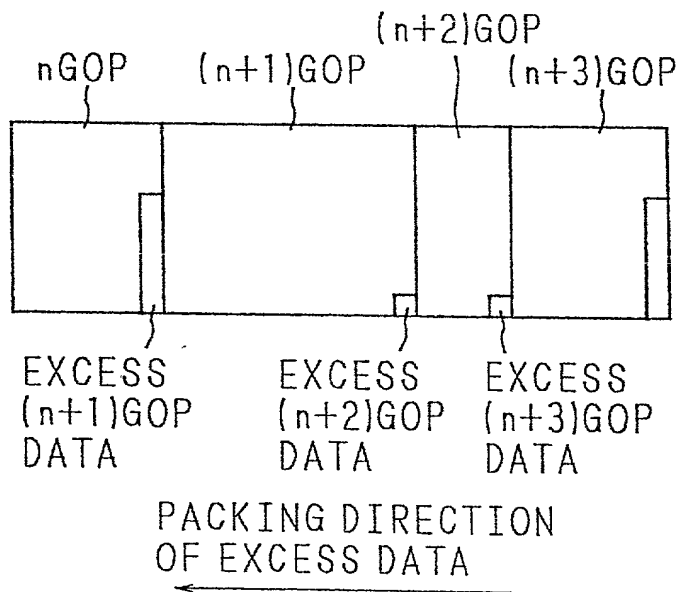


FIG. 84

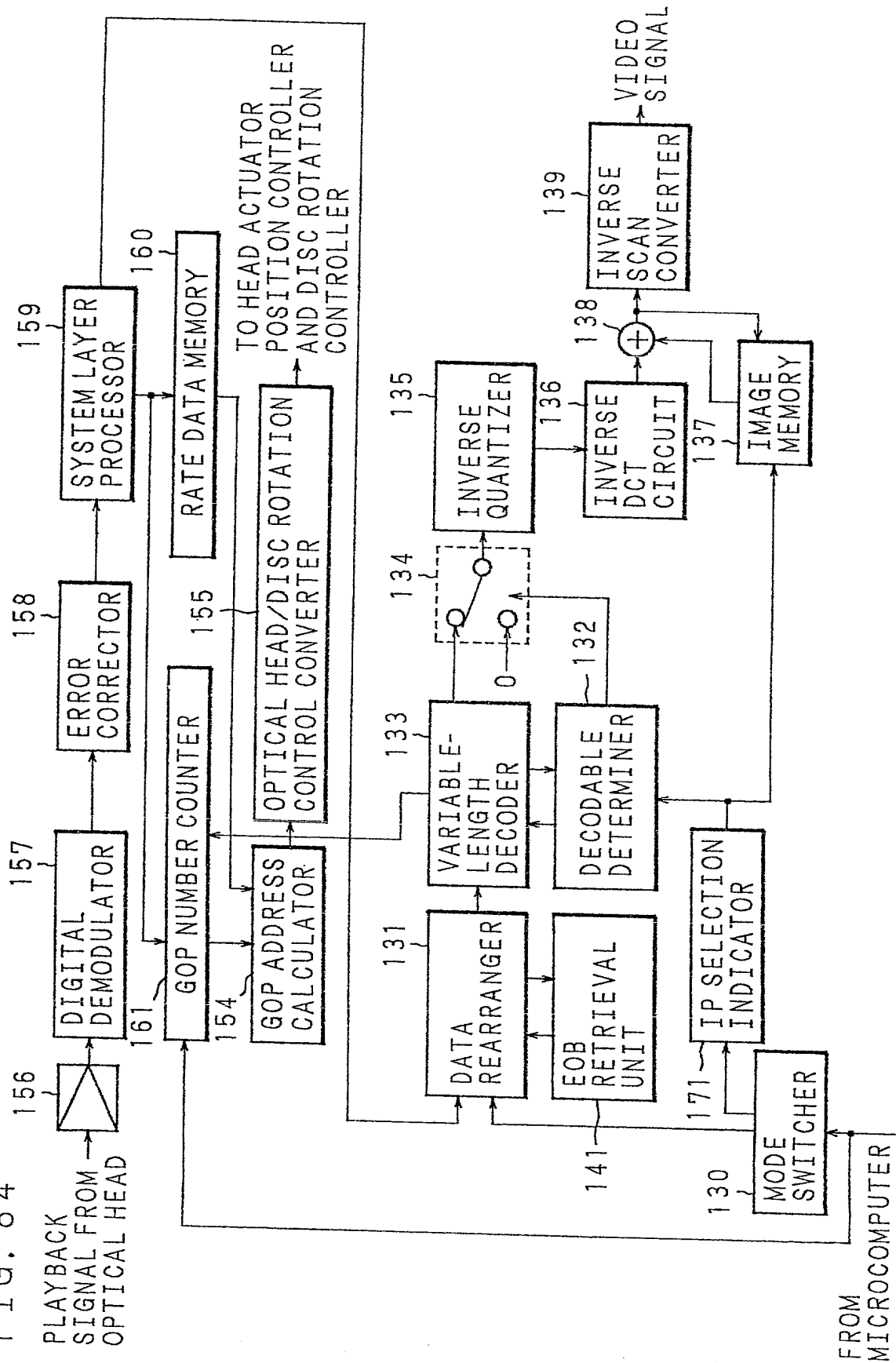


FIG. 85

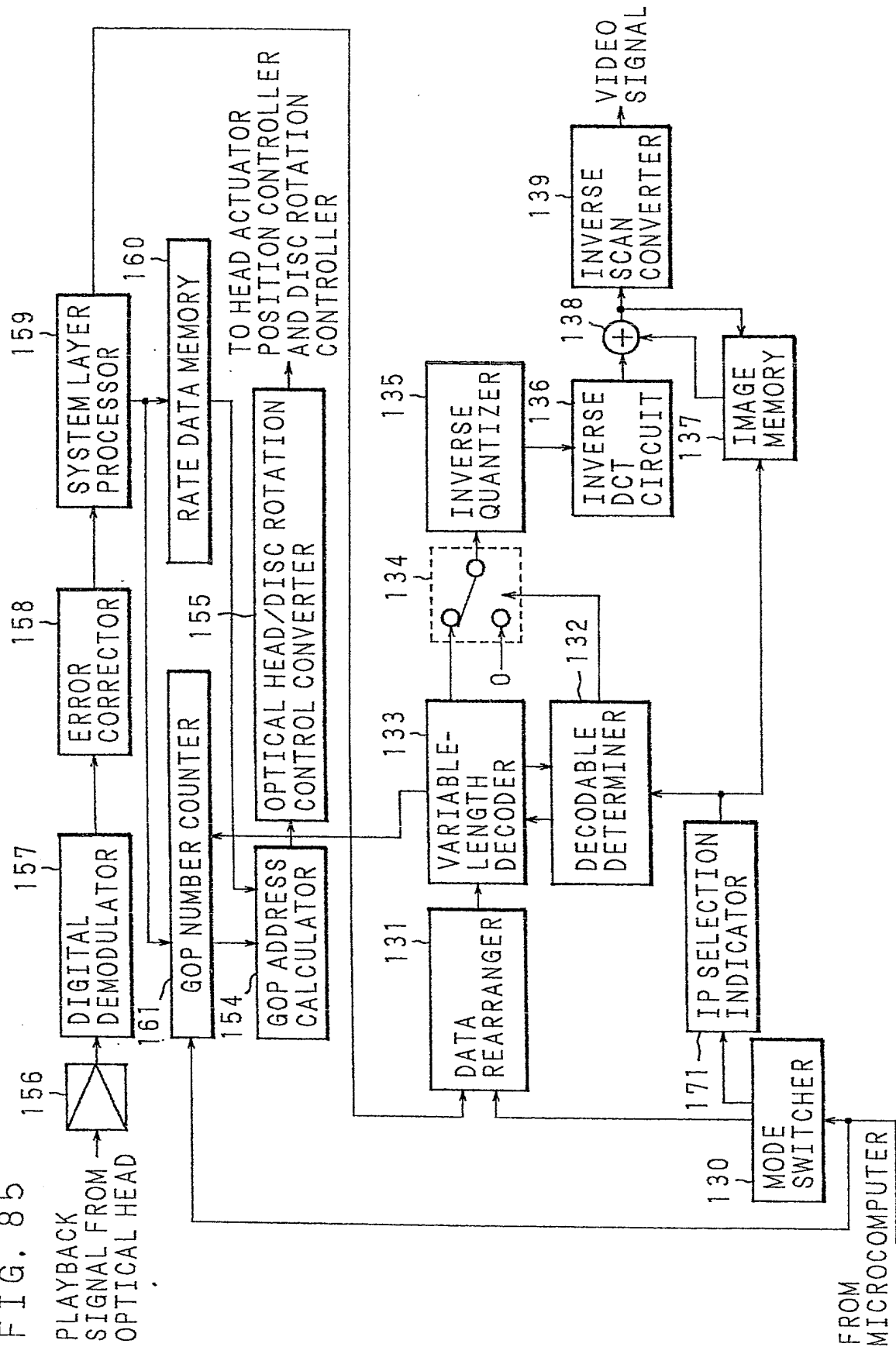


FIG. 86

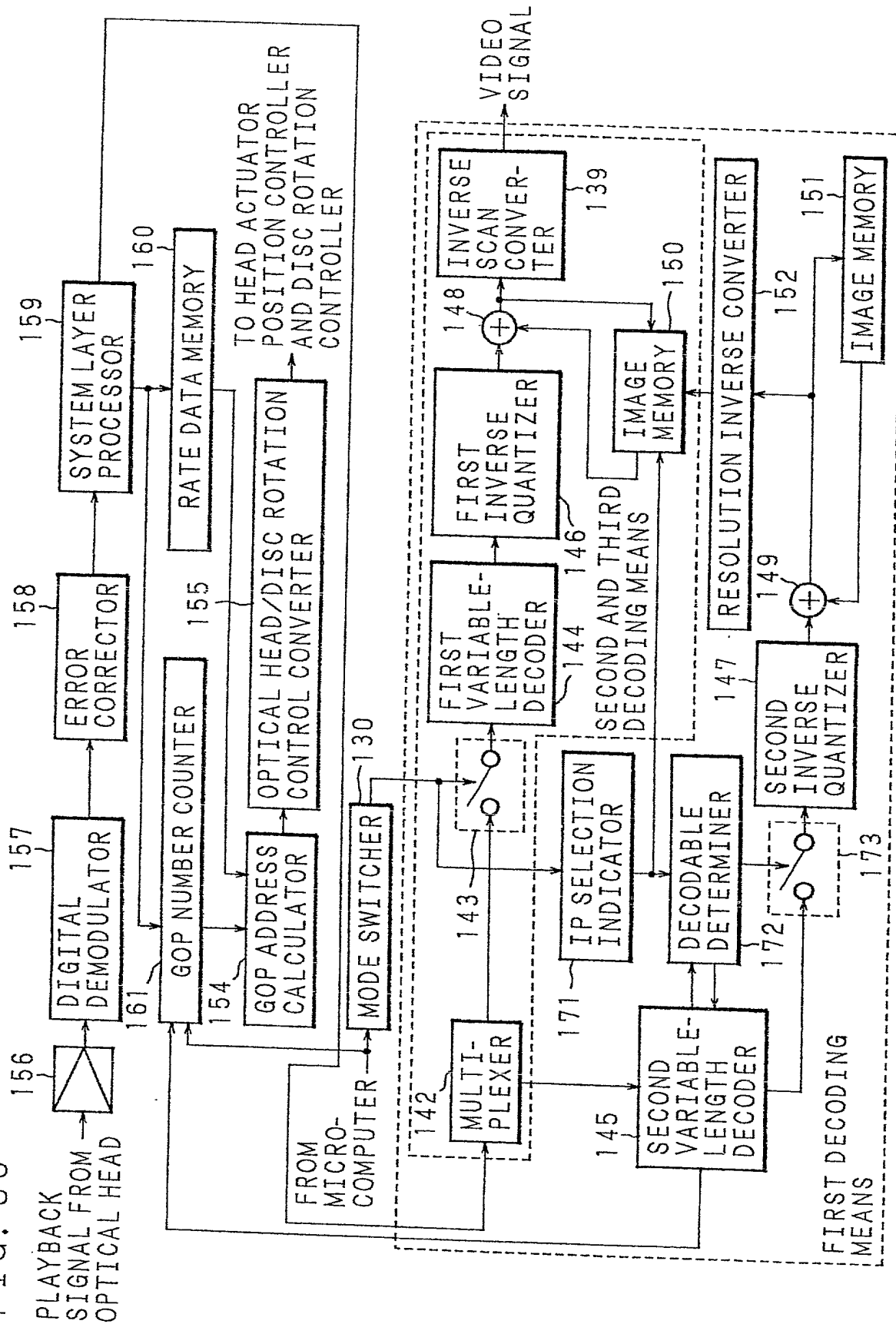


FIG. 88

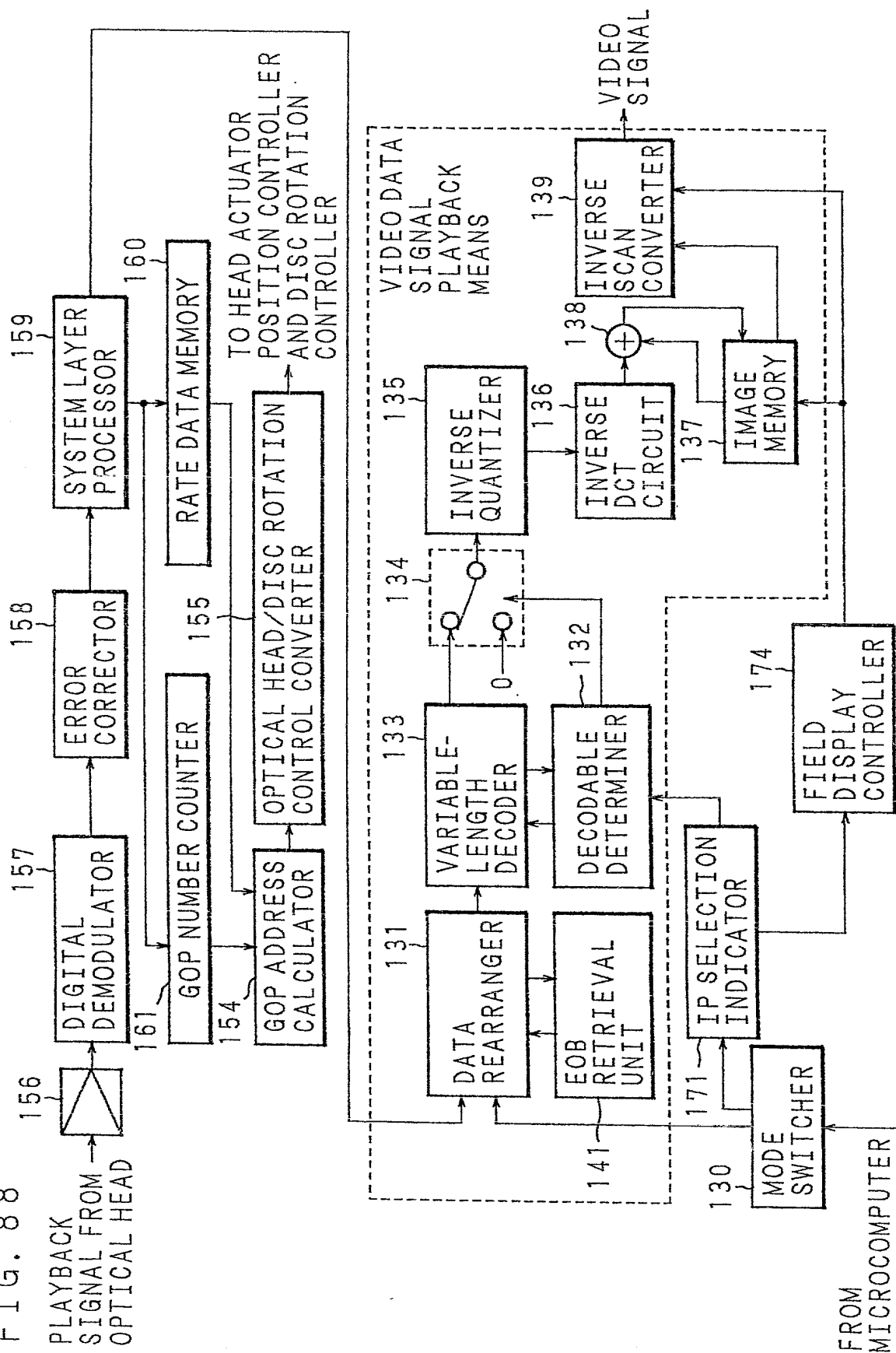


FIG. 89A

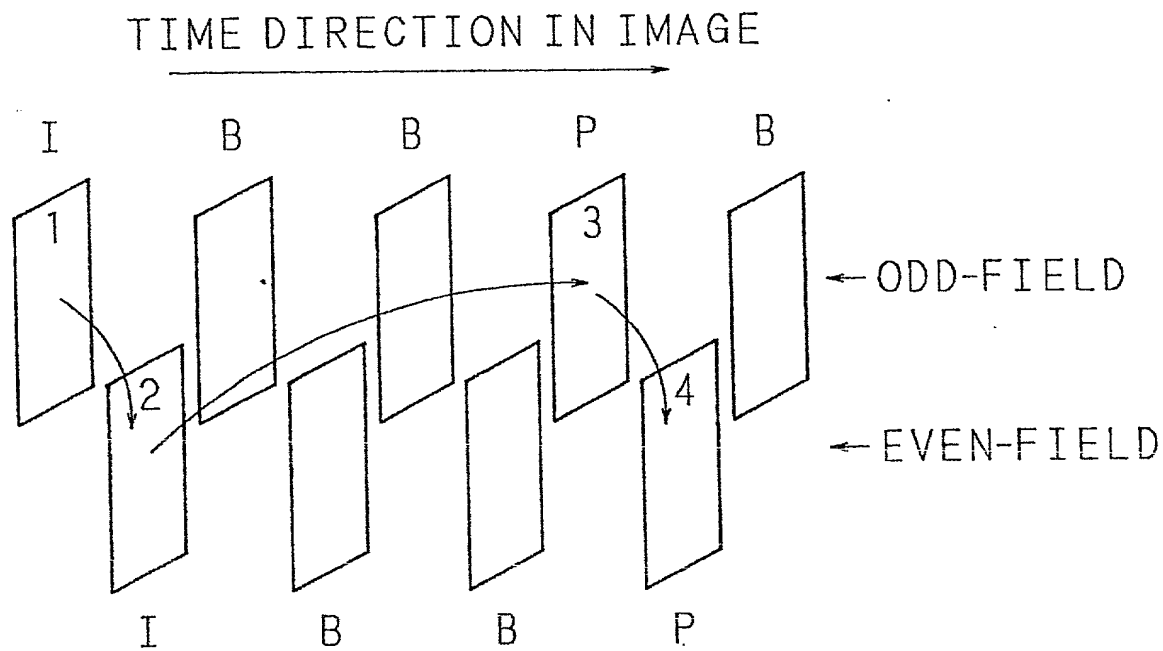


FIG. 89B

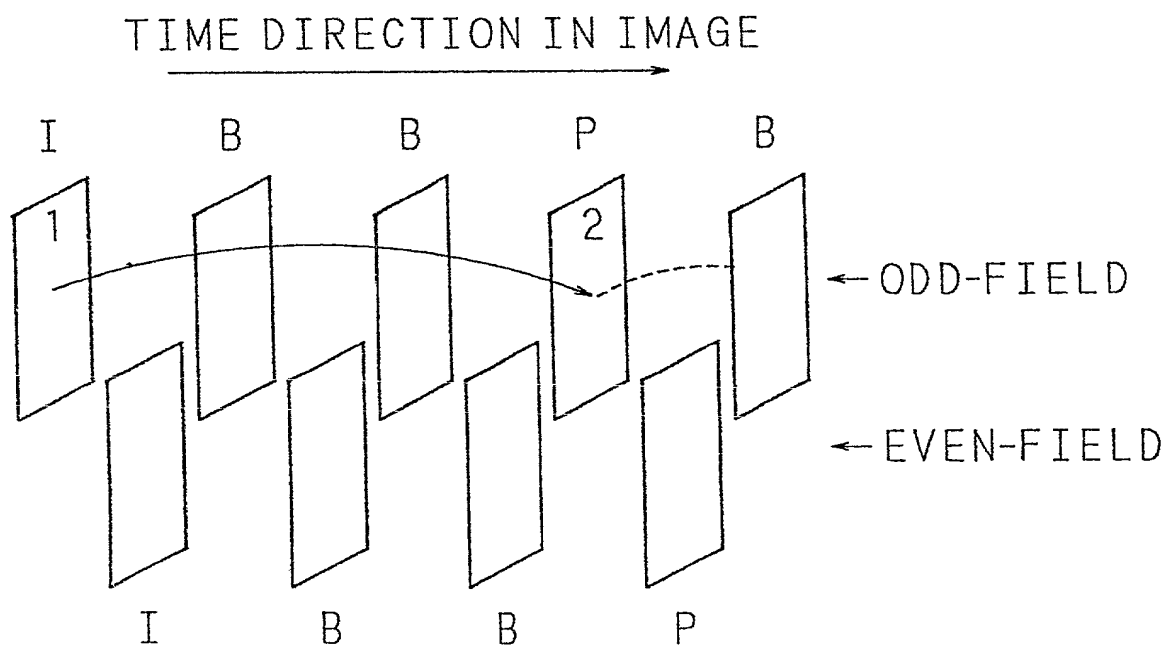


FIG. 90A

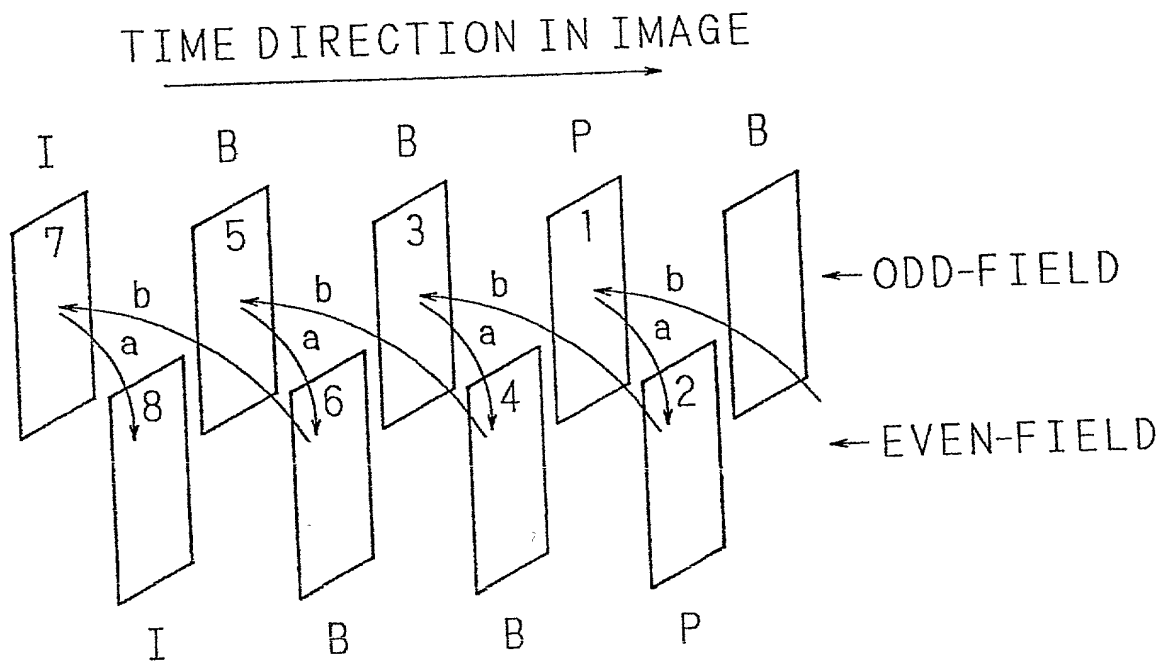


FIG. 90B

